merten

SOLUTIONS FOR INTELLIGENT BUILDINGS

INNOVATIONS 2004

MERTEN@HOME

ALWAYS AT HOME, WHEREVER YOU ARE

In a world where many people are constantly on the move, it is Merten's aim to make your home and business life just that little bit easier: with the new merten@home user interface for the control of all building management functions.

Merten@home is intuitive and enables the convenient control of your own home, holiday home or commercial premises via PDA, touchscreen, PC or TV, regardless of whether you are sitting in the comfort of your own home or you are away. With merten@home your clients are free to roam the globe.

The clearly structured user interface offers three convenient access options for functional control: room-, function- or program-oriented.

Your advantage: the ability to control, set and display all building management functions conveniently and directly, with as few clicks as possible.

If only everything in life was so simple!

Take a look at our online demonstration at www.merten.com to see just how simple navigation with merten@home really is.

Wouldn't it be great if:

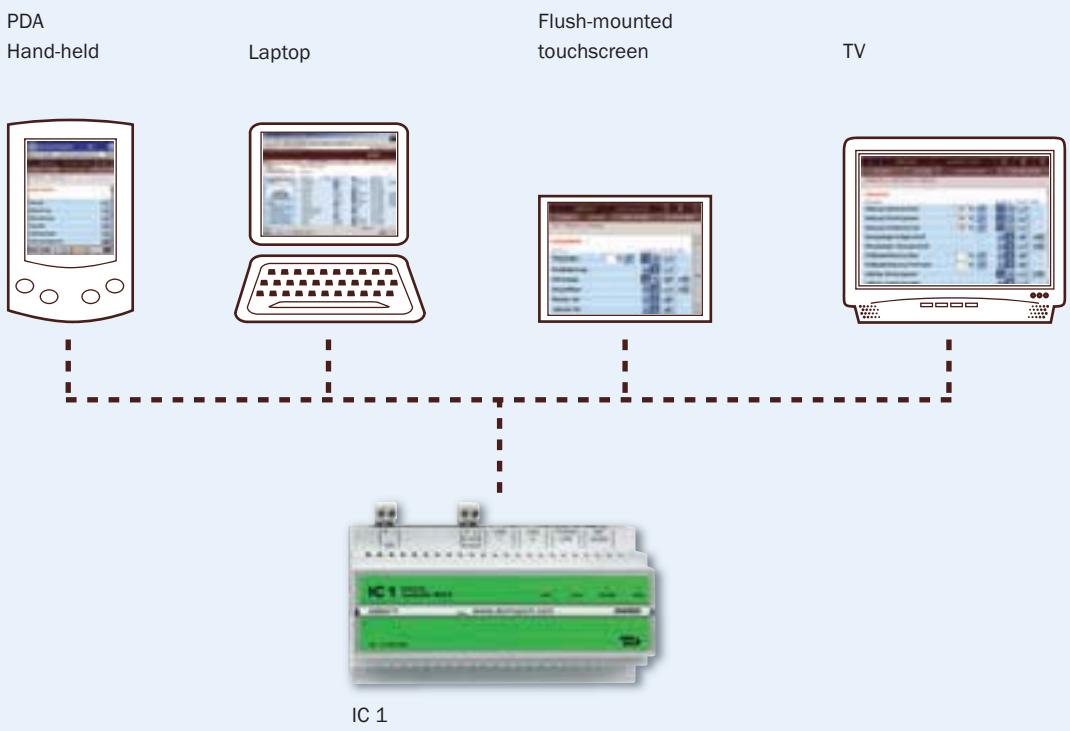
- on your return from a business trip, you could set your underfloor heating to a cosy temperature via PDA W-LAN hotspot while still at the airport?
- you could view your monitoring system, messages and camera images by simply popping into an Internet café while on holiday?
- you could pre-heat the sauna and turn on some relaxing music via the touchscreen in the hall?
- you could view consumption data, such as electricity consumption, on your TV in the comfort of your own home?

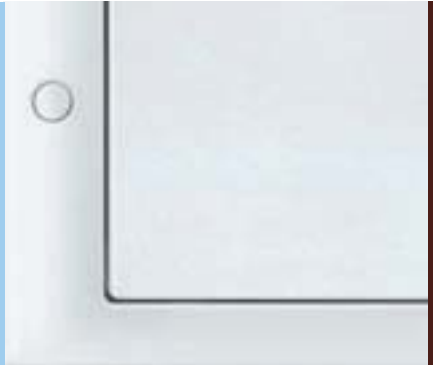
Technical requirements

In order to use merten@home, you must have an IC 1 EIB Internet Controller installed. The intuitive user interface is already integrated so that commissioning really could not be easier and access to the Internet Controller is SSL-coded, thus offering maximum security.

For further information, please refer to page 54.

MERTEN@HOME – ALWAYS AT HOME, WHEREVER YOU ARE





A switch range that has to operate in damp locations, workrooms or outdoors is subject to the most rigorous demands: it must be weatherproof and, above all, damp-proof. Just like AQUADESIGN from Merten. This new shatterproof switch series meets the IP 44 standard.

It would be a shame, however, if AQUADESIGN was relegated exclusively to use in laundry rooms or basements, as this attractive switch range comes with a multitude of insert options: from rockers to indoor movement detectors to communication inserts.

And thanks to a special adapter, you can also combine it with the entire range of System M components.
A transparent hinged lid enables integration of System M EIB push-buttons or displays in damp locations and outdoors.

If professionally installed, even network connections satisfy protection rating IP 44.

In addition to the standard latching frame, this range also offers a screw-on version. The lining piece of both frame types can also be screwed to the wall thus offering increased protection against theft.

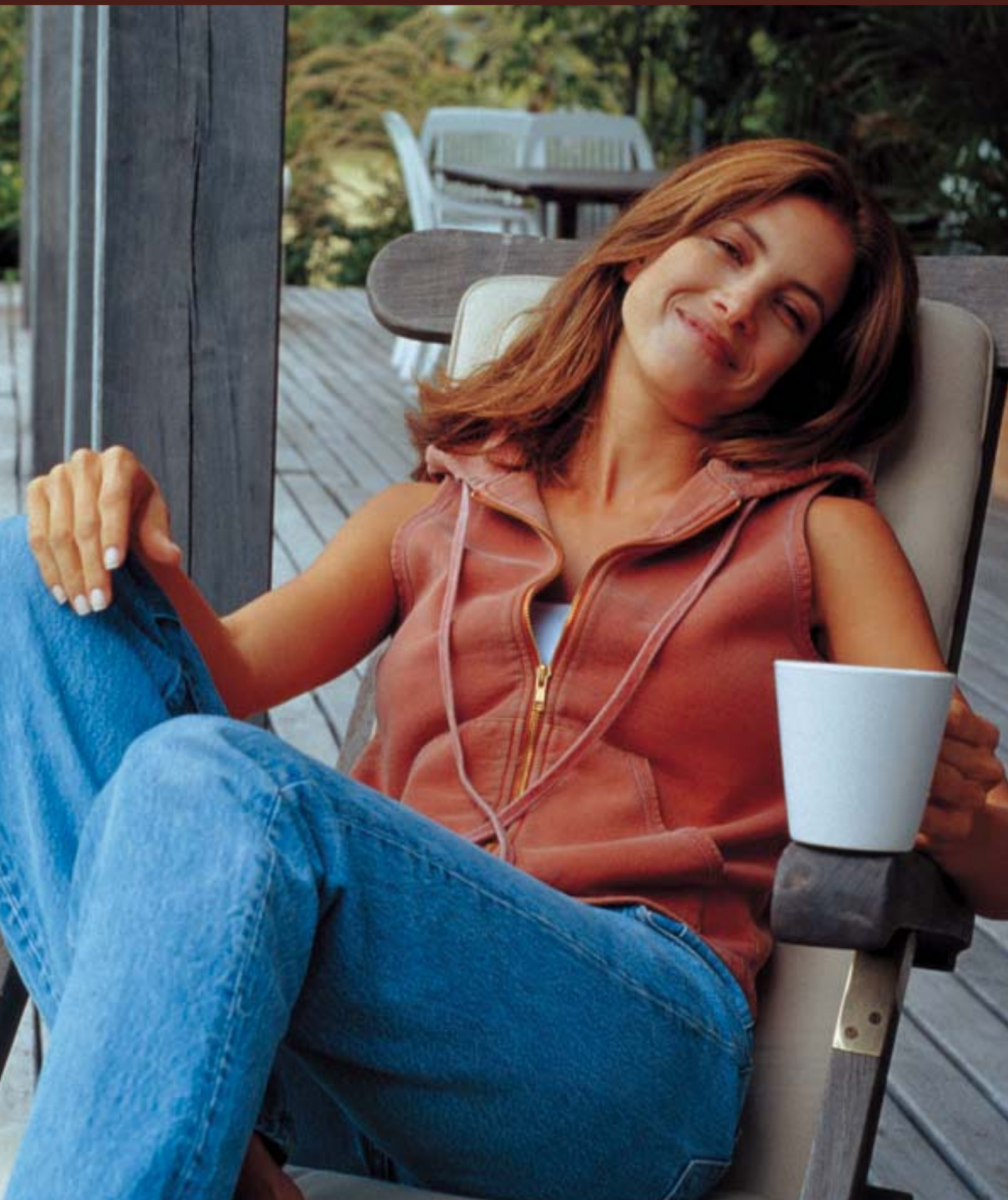
For further information, please refer to page 32.

Frame, 2-gang, with rocker and socket-outlet
AQUADESIGN, aluminium

Frame, 1-gang with communication insert,
type of protection IP 44
AQUADESIGN, aluminium

AQUADESIGN

TECHNICALLY AND VISUALLY WATERTIGHT



M-STAR DESIGN
ENHANCES ANY WALL

The style and material of M-STAR make it the first choice for all those who value sophisticated interior designs. The polished workmanship of the aluminium frames and the elegant satin silver, chrome and polished brass colours lend the new switch range a character of unmistakable high-quality. M-STAR introduces a unique sense of harmony to a room. The colour of the central bridge piece matches that of the insert, thus further emphasising the frame of the 2- and 3-gang models.

Switch, 1-gang with rocker
M-STAR, satin silver/polar white

However, M-STAR is not just an elegant eye-catcher – it is also highly functional. This is because this design range incorporates all System M central inserts and cover plates. From a simple light switch through to the convenient remote control of all building management functions using the modern building system technology INSTABUS EIB – anything is possible.

For further information, please refer to page 36.

Frame, 2-gang, with rocker and socket-outlet
M-STAR, chrome/anthracite

Frame, 2-gang, with rocker and socket-outlet
M-STAR, polished brass/polar white

LINE 21
TWO SERVICES, ONE TELEPHONE LINE

Fed up with your Internet access being restricted to a single room? Would you like access available in any room in the house that has a telephone socket? Not just in the study, but also in the living room? No problem. Simply replace your existing telephone socket with a Line 21 socket, connect your telephone and computer – and it's done.

Line 21 supports parallel transmission of analogue telephone signals and digital data. Not only is all the necessary technology contained in the compact and clever Line 21 socket, it can also be implemented without the need for complicated wiring, additional cable, special tools or knocking through walls.

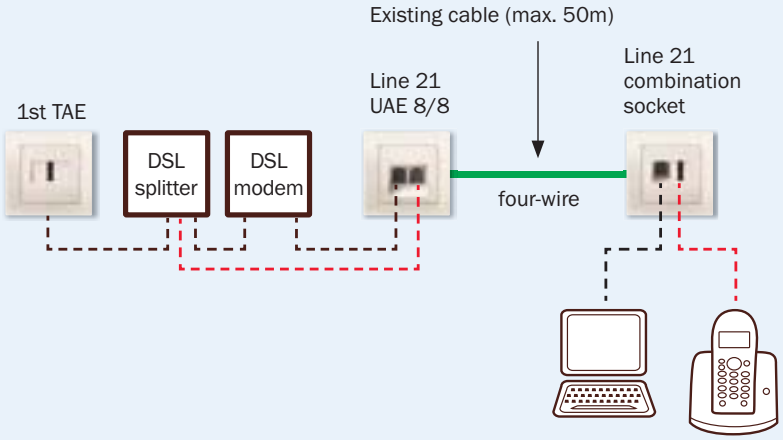
Line 21 is the ideal solution both for residential and commercial use.

For further information, please refer to page 45.

Line 21 UAE insert 8/8
M-PLAN, aluminium

Line 21 UAE/TAE combination box
M-PLAN, white

EXAMPLE: RETROFITTING DSL WITH LINE 21



Requirements

- Telephone line between the main supply point of the network provider and the PC that is to be equipped with DSL

Accessories required

- One Line 21 junction box UAE 8/8 (near 1st TAE) and, if applicable, surface-mounted box
- One Line 21 junction box (combination box) as a replacement for the existing TAE where the PC is located

Work required

- Connection of all four wires to both junction boxes
- Install additional devices, such as splitters or modems, centrally in a suitable distributor box

The ideal solution for private and commercial use

M-PLAN WITH REAL GLASS FRAMES

SWITCHING MADE BEAUTIFUL

TIMELESS, AESTHETIC AND HIGH QUALITY

The M-PLAN design – already the recipient of a number of design awards – now offers yet another design version: real glass frames in diamond, mahogany, ruby red and sapphire, available as 1-gang, 2-gang or 3-gang switches.

The new glass frames can be combined with all System M inserts in the latest colours of white, polar white, aluminium and anthracite.

So you can offer your customers a whole new range of interesting colour combinations.

For further information, please refer to page 37.

Diamond/aluminium

Mahogany/
polar white

Ruby red/
aluminium

Sapphire/
anthracite

SYSTEM M
NOW AVAILABLE IN CLASSIC WHITE

The entire range of Merten switches is now available in classic white. In addition to the tried and tested ATELIER and M1 ranges, we have now added classic white to our new System M switch range.

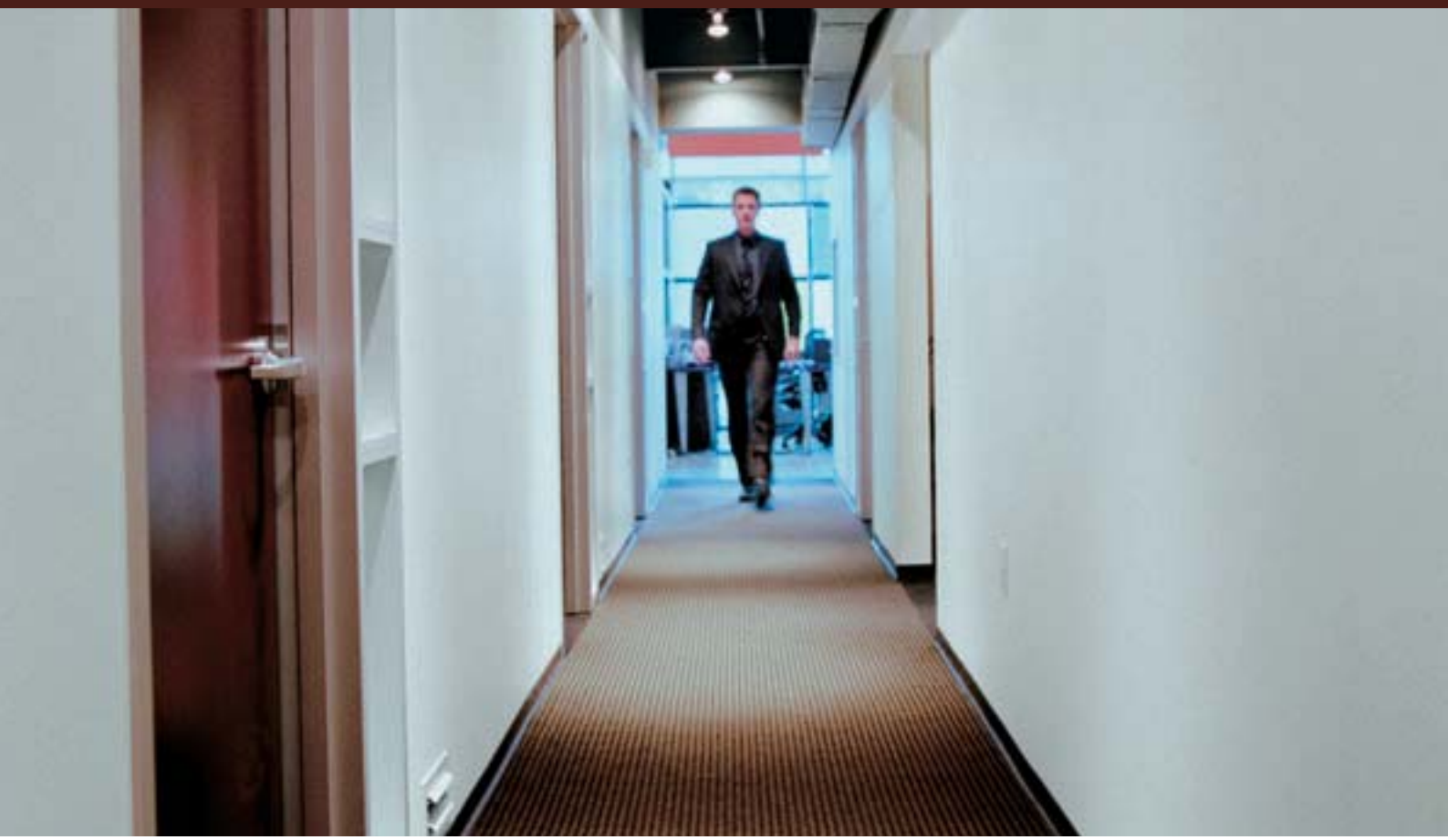
Three great features for the price of one:

- System M – switch range with an elegant, semi-matt and stain-resistant finish. Made of shatterproof thermoplastic.
- M1 – basic switch with an understated design and smooth finish. Made of highly scratch-resistant duroplastic
- ATELIER – a classic with a smooth finish and a soft, flowing design so that frame and insert merge subtly into a single unit. Made of highly scratch-resistant duroplastic.

The right solution for every customer – they can now choose from our standard range in three up-to-the-minute styles.

M-SMART, white

M-PLAN
ORIENTATION SYSTEM



LEADING THE WAY WITH ELEGANCE

The new Merten M-PLAN door sign points the way to the future – both with and without illumination. It ensures an uniform design for labelling and electrical installations throughout the building.

A clear and highly visible eye-catcher, the illuminated orientation sign can be installed quickly and easily in any flush-mounted box. As well as combining it with conventional switches, the sign can also be controlled using the Merten radio system and INSTABUS EIB.

No flush-mounted box is required for the non-illuminated version, which can be fixed to glass or screwed onto the wall.

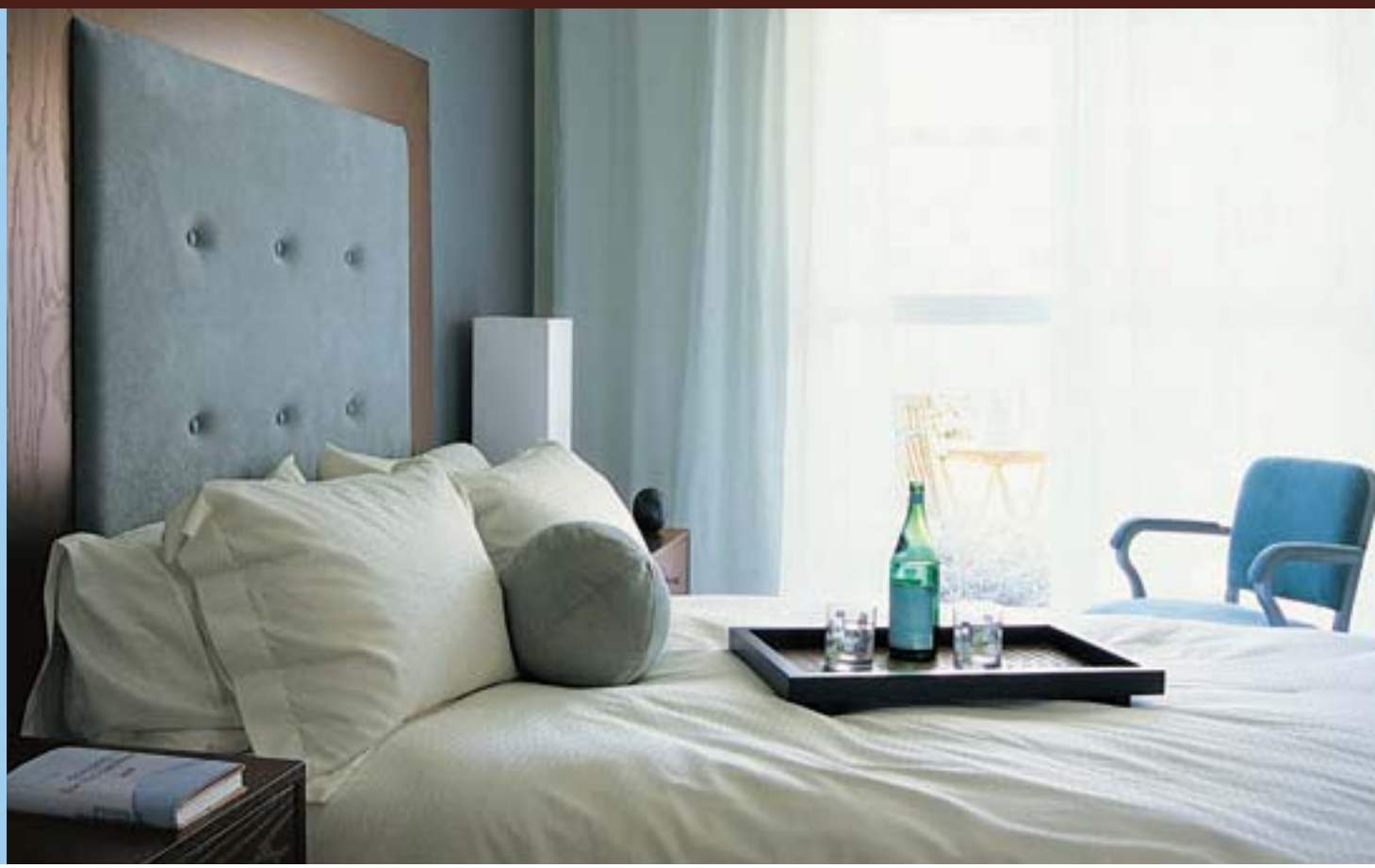
The new Merten orientation sign is extremely versatile. Whether used as a nameplate or doorplate in the home or in company buildings, offices, hotels and other commercial properties, to indicate for example whether offices and conference rooms are occupied.

Furthermore, with the Merten labelling software you can even design your own labels and mount them as and when required.

For further information, please refer to page 38.

Orientation sign
M-PLAN, aluminium

LED LIGHT SIGNALS



EYE-CATCHING AND UNIFORM

Some signs speak more than a thousand words. And it is for this reason that Merten has now designed a range of matching, and above all, homogeneous frames in the form of the new System M LED light signals, thus ensuring continuity and uniformity for your electrical installation and signs.

LED light signals do not just look good, they are also extremely eye-catching – thanks to the LED backlit window. Whether single-colour (green or red) or two-colour (red and green), they guarantee optimum illumination and maximum ease of identification, both during the day and at night.

They can be used virtually anywhere – in corridors or stairwells, outside toilets or lifts, in offices, surgeries, company premises, hotels, homes for the elderly – or just simply at home.

As well as combining the light signals with conventional switches, they can also be controlled using the Merten radio system and INSTABUS EIB. In short, everything you need for lucrative installations with added value.

For further information, please refer to page 38.

Rocker for two-circuit switch
M-PLAN, aluminium

LED light signal
M-PLAN, aluminium

SYSTEM M IS NOW SPLASHPROOF

WEATHERING THE STORM

Wouldn't it be great if you could use System M outdoors as well? Well now you can! The M-SMART, M-ARC and M-PLAN light switch ranges are now fitted with highly effective splashproof protection according to IP 44. Typical application examples: from door bell switches through to socket-outlets on the patio.

System M socket-outlets, rockers and rockers with openings for symbols are now available in a splashproof version.

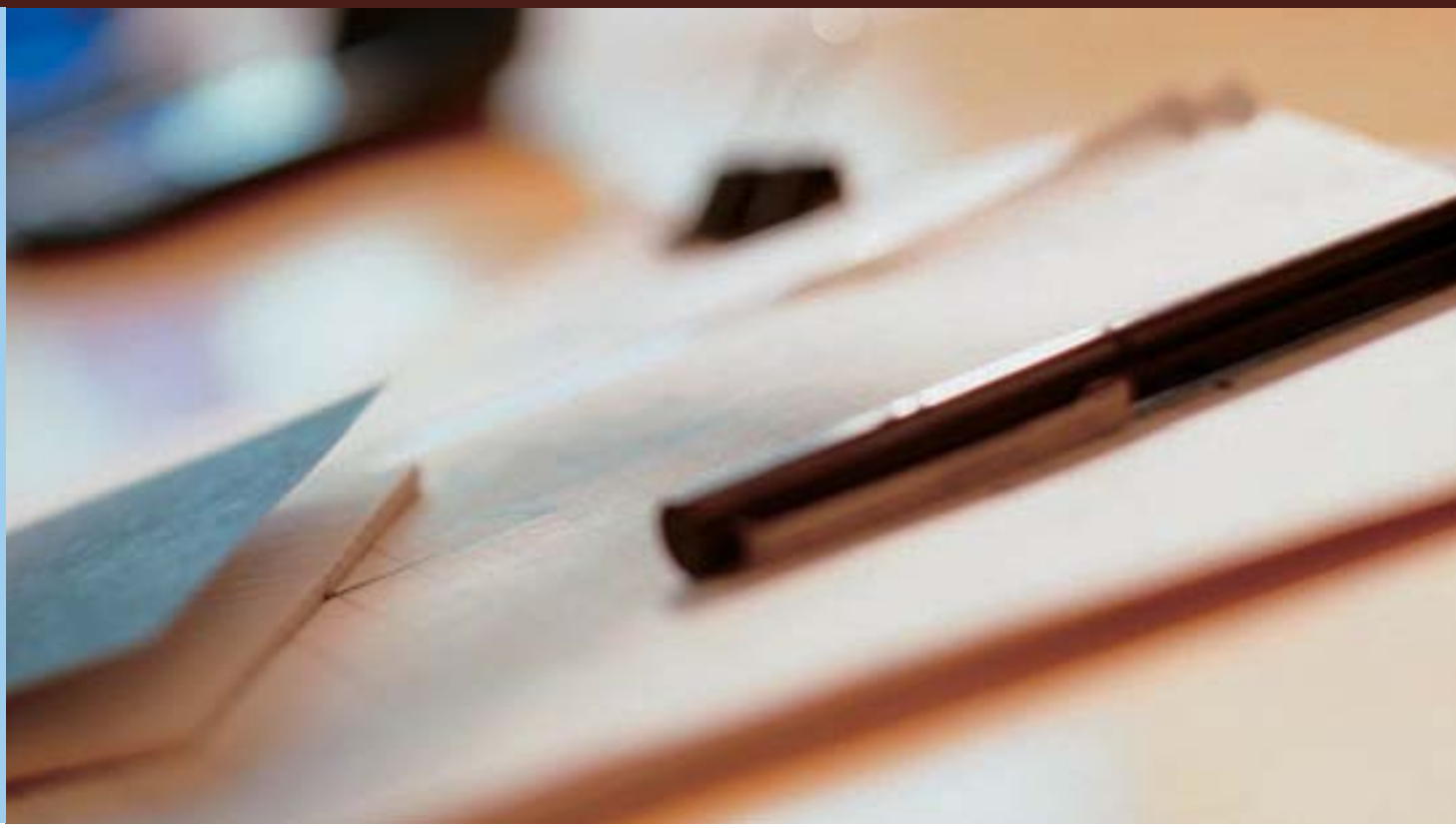
For further information, please refer to page 39.

Rocker
M-PLAN, polar white

SCHUKO® socket-outlet insert with hinged lid
M-PLAN, anthracite

M-SMART WITH LABELLING BRACKET

PRACTICAL, VERSATILE AND EASY TO INSTALL



Unlike many labelling options, the Merten labelling bracket stays on the insert when dismantled.

This can prove very useful, for example when painting or decorating. What is more, the labelling bracket will stick to any surface (wallpaper, plaster etc.) and can smooth out uneven surfaces up to 1.5 mm.

This means that it is easy to match up switches, socket-outlets and EIB components when the work is finished.

For further information, please refer to page 37.

Frame with labelling bracket, 2-gang
M-SMART, polar white

RADIO SYSTEM

CONVENIENCE WITHOUT THE NEED FOR CABLES

A FLUSH-MOUNTED RADIO SOLUTION

Flush-mounted radio receiver

With the new flush-mounted radio receiver, it now could not be easier to retrofit socket-outlets and lights to allow wireless operation via radio signal. Simply place the ultra-compact radio receiver in flush-mounted boxes, behind socket-outlets and blanking covers or in ceiling roses.

If installed in waterproof housing, the new flush-mounted radio receiver is also suitable for outdoor use, thus allowing outdoor sockets or lamps to be conveniently switched on and off via radio signal.

Radio receiver,
flush-mounted, 1-gang

Universal radio transmitter,
flush-mounted, 4-gang

Flush-mounted universal radio transmitter

The 4-gang flush-mounted universal radio transmitter is also easy to integrate in existing electrical installations. Simply install the compact device behind the push-button inserts in the flush-mounted box. Up to four conventional push-buttons then control the connected loads via radio signal.

And there is no need to install a new switch range because the new universal transmitter enables any switch range to be integrated into the Merten radio system.

For further information, please refer to page 44.

RADIO REPEATER – SECURITY IN EVERY NOOK AND CRANNY

Wherever radio transmitters are too far away from receivers, or where signals are weakened due to the structure of the building, help is now at hand: the Merten radio repeater.

It receives weakened signals, amplifies them and then routes them. This ensures that all radio signals reach the receiver – even at critical distances. Reliable and interference-free on 868 MHz.

The radio repeater even allows you to link the radio system with the smoke detector system. This means you can be absolutely sure that any alarm from smoke detectors fitted with radio modules is forwarded to the radio system. In the event of an alarm, the lighting in the house is switched on and/or the shutters are raised in order to clear possible escape routes.

Thanks to the connecting cable with mains connector, the surface-mounted box is quick and easy to install and activate.

RADIO TEST SET – THE PERFECT ASSISTANT WHEN INSTALLING RADIO COMPONENTS

Do you want to determine the optimum location for radio components at the customer's site prior to installation? Or check components that are already installed? With the Merten radio test set, you can measure radio transmission paths in buildings – simply, conveniently and reliably.

The test set comes in an attractive mini briefcase and comprises an aluminium-coloured ARTEC test transmitter and an elegant hand-held receiver box. It also includes the Merten radio guideline, which is packed with practical tips and useful information on the subject of radio technology.

For further information, please refer to page 44.

FLUSH-MOUNTED INSTABUS EIB RADIO GATEWAY

BI-DIRECTIONAL LINKING

Combine all the advantages of intelligent building system technology and the Merten radio system. The new INSTABUS EIB radio gateway makes it possible. As a compact flush-mounted device, it operates bi-directionally and can convert radio signals into INSTABUS EIB telegrams and vice versa.

The flush-mounted INSTABUS radio gateway offers maximum flexibility in the development of solutions for the key market sector of renovation and modernisation.

Example of a commercial property:

An office building is to be refurbished, creating a single open-plan office in a department comprising several smaller offices. Thanks to the flush-mounted INSTABUS radio gateway, staff can operate the lighting and shutters from the comfort of their own desk – instead of having to run to and from between desk and wall switch. No cables are required – just a radio push-button. The compact flush-mounted design of the gateway enables installation in trunking or suspended ceilings.

Example of a private home:

Your client wishes to operate the garage door using an EIB push-button in the hallway? Or control the outdoor lighting – preferably using a timer control? No problem with the new flush-mounted INSTABUS radio gateway! And no need to lay a single metre of additional cable. Now it is possible to control shutters, switch lighting on and off or close skylights from any location in the property.

For further information, please refer to page 45.

INSTABUS EIB
Flush-mounted radio gateway

ARGUS SMOKE DETECTOR SYSTEM

YOUR GUARDIAN ANGEL IN A HIGH-QUALITY GLASS DESIGN

With its elegant and clear-cut design, the new ARGUS smoke detector perfectly complements today's modern architecture.

However, its attractive exterior also hides a wealth of proven Merten expertise:

- Wireless interconnection via reliable 868 MHz frequency
- Acoustic and optical fault/battery replacement display
- Mains-independent operation
- Simple installation

Thanks to plug-in extension modules, expanding the system could not be simpler. In the event of an alarm, the radio module with integrated transmitter and receiver ensures that all radio-connected smoke detectors also trigger an alarm. It is not necessary to have a control unit as an alarm-triggering receiver.

ARGUS glass smoke detector

For further information, please refer to page 46.

ARGUS MOVEMENT DETECTOR SYSTEM

NOW EVEN SIMPLER TO INSTALL

The proven ARGUS movement detector system has an impressive clear-cut and modern design. And now it is even simpler to install.

Convenient installation

Thanks to the four cable inlets at the back of and underneath the housing, installation and connection is quick and easy.

Fast adjustment

Controllers are located underneath the cover plate and are easily accessible. Setting and teaching the radio module, using a rotary encoding switch with latching, is child's play.

Additional wall clearance bracket

To assist installation on uneven walls or with top-entry cable lines, all movement detectors are now supplied with additional clearance brackets.

For further information, please refer to page 48.

ARGUS presence detector
Original size

ARGUS PRESENCE DETECTOR
EVERYTHING COVERED – THANKS TO OUR OPTIMISED SENSING RANGE

Greater detection density

With its 5 sensors and optimised lens with 6 extensive levels and 544 switching segments, the new ARGUS presence detector captures even the tiniest of movements.

Increased detection range

Installed below the ceiling (at an installation height of 2.5 metres), the ARGUS presence detector can detect the presence of people within a 14 m detection range. Advantage: fewer presence detectors are required per room.

Noticeable energy saving

The two relay outputs control the lighting, heating, air-conditioning and ventilation with a single device. By matching supply with demand with regard to the control of lighting, heating, air-conditioning and ventilation in individual rooms, heating and electricity costs can be reduced by up to 70%. This means an end to unnecessary energy consumption in offices, conference rooms, schools, warehouses and corridors.

Compact design

Slim, elegant and compact, the ARGUS presence detector looks great on any ceiling.

Maximum convenience

The presence detector is easy to operate via infrared remote control.

For further information, please refer to page 47.

EIB EASY SHUTTER BASE UNIT REG-K

THE SIMPLE INTRODUCTION TO THE LUCRATIVE EIB BUSINESS

EIB technology is up-and-coming. More and more people want to reap the benefits of intelligent building technology: convenience, flexibility, security and efficiency.

We have added an important component to the EIB EASY product range: the EIB EASY shutter base unit. The correct solution wherever you need to control shutters and/or blinds.

This provides the perfect introduction to EIB. The shutter base unit has a 4-gang shutter actuator, a four-channel time switch and scene functions for 4 channels.

And it can be easily expanded with any EIB EASY terminals. This means that not only will your clients be able to intelligently control shutters and blinds, but they will also be able to switch and dim lighting and/or activate light-scenes.

The EIB EASY shutter base unit has everything an intelligent house needs: computer, logic and software. All of which is easy and quick to install – without undue prior investment. And no need for software, a laptop or extensive training.

For further information, please refer to page 55.

EIB EASY shutter base unit

INSTABUS EIB SWITCH ACTUATORS REG-K, 8-GANG AND 12-GANG
SWITCHING AND CONTROL AS REQUIRED

High connection values and extensive parameterisation options – those are the key features of the new generation of INSTABUS EIB switch actuators. Easy to retrofit, they enable you to fulfil all your clients' wishes quickly and easily.

One technology – two switch actuators

With mechanical manual control for switching 8 or 12 loads.

8-bit scene objects

This supports the retrieval and storage of up to eight independent scene values.

Cut-out warning for staircase lighting function

Your clients need never be left in the dark again! The new switch actuators are fitted with a warning function – ideal for the stairwells of apartment blocks.

Relay state after application download

The relay state can be individually set after downloading an application.

Central function

Each channel can be switched on receipt of the central object or retain its own status. On receipt of an ON or OFF telegram, the response can be individually defined.

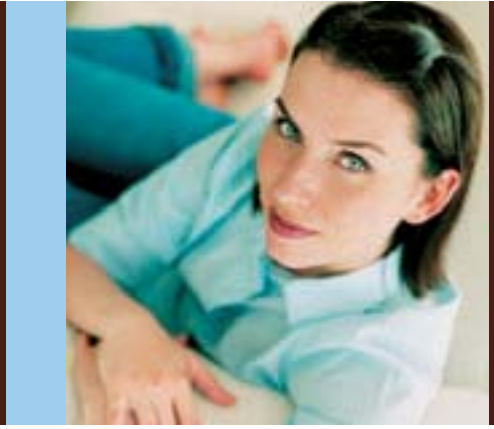
For further information, please refer to page 52.

REG-K/12x230/16

REG-K/8x230/16

MULTI-FUNCTION PUSH-BUTTON WITH ROOM TEMPERATURE CONTROL UNIT

SAVINGS MADE EASY



Multi-function push-button with room temperature control unit M-PLAN, aluminium

It has never been easier to save energy and installation costs. The ultra-slim System M multi-function push-button with integrated room temperature control unit from Merten is now available in two versions: as 2-gang and 4-gang push-button.

Time and space-saving installation

Time is money. And you can save both, because in future you only need to install one, not two devices. The control of heating and functions, such as lighting and shutters, has always required two switching units – until now. In future your clients can control everything with a single device. An additional display and control unit is no longer required.

Energy-saving heating control

Help your clients save too: thanks to the integrated room temperature control unit, individual living spaces can be individually and conveniently heated or cooled as required.

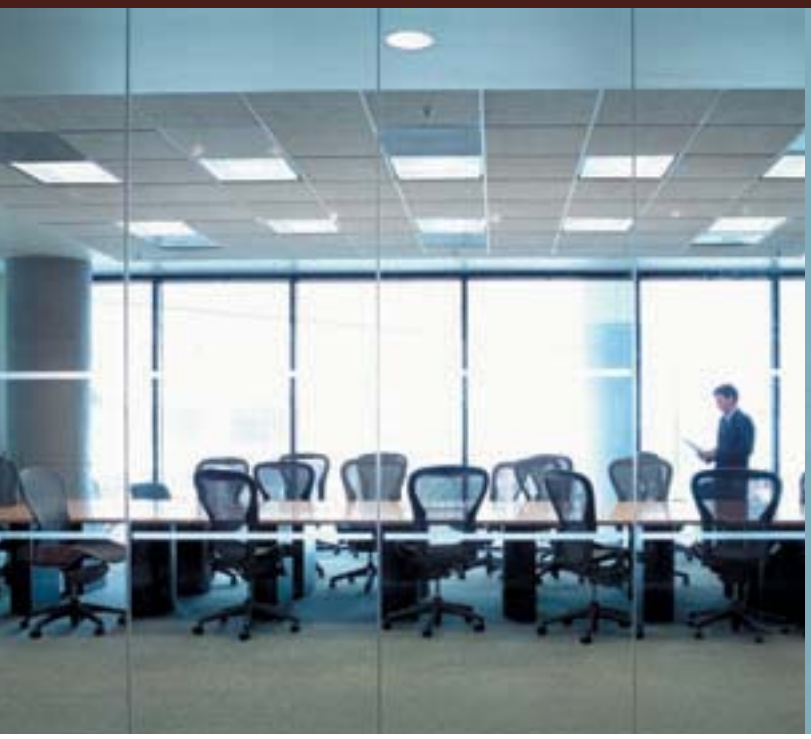
Backlit display

The display is clearly arranged and easy to read, thanks to its white backlit display. The rocker display cover lets you define key settings. Once everything is set, the display push-button can be locked.

For further information, please refer to page 49.

PLANTEC WITH ROOM TEMPERATURE CONTROL UNIT

AND TWO BECAME ONE



Energy saving is important. And it is now easier than ever to achieve, thanks to the new PLANTEC with integrated room temperature control unit. PLANTEC combines two devices in one. A multi-function push-button for controlling light, scenes and shutters and an intelligent control unit for the on-demand, time-dependent control of room temperatures.

PLANTEC has six freely programmable function keys with which you can activate pre-defined scenes and individual functions via INSTABUS EIB. Further functions can be set using the white backlit display. The integrated IR receiver also makes it convenient and practical to implement remote control. Make the switch to an easy life.

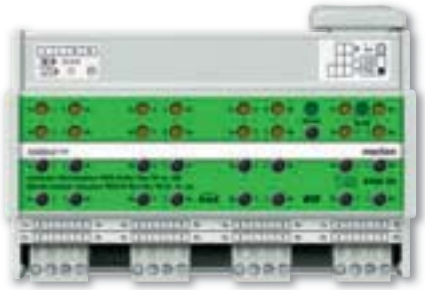
For further information, please refer to page 49.

SHUTTER/SWITCH ACTUATOR REG-K/8X/16X/10 WITH MANUAL MODE

FLEXIBILITY ON ALL CHANNELS

You can now control different building management functions, such as lights and shutters, even more efficiently. And it has just got simpler – with the shutter/switch actuator, which offers even greater flexibility. The reason: you can define each channel individually as a shutter or switch channel. Each channel can control a maximum of 1 shutter/blind drive or switch a maximum of 2 loads. And that pays: if, for example, you realise during configuration that you only require 7 of the 8 shutter channels, this means you have two additional switch channels available for switching lights. But this ultra-compact device also houses a wealth of other good ideas. With just a glance, the LEDs indicate the operational status of the individual channels. When positioning the shutters, you can program the angle of the slats, as well as the height of the shutter. The plug-in screw terminals enable pre-wiring.

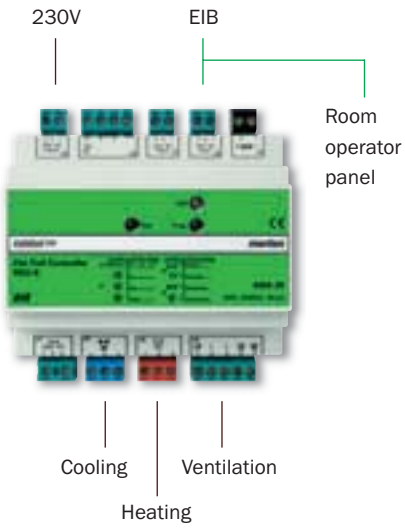
For further information, please refer to page 51.



Shutter/switch actuator REG-K/8x/16x/10 with manual mode

INSTABUS FAN COIL CONTROLLER REG-K

INTELLIGENT AIR-CONDITIONING



Application example

The fan coil controller supports the integration of heating, air-conditioning and ventilation systems in the INSTABUS EIB building system technology. This combines a multitude of individual solutions into a single system, which now makes the control of your indoor environment simpler, more accurate and more cost-effective than ever before. It is also possible to control hot water convector heaters. Ideal areas of application: office blocks, hospitals and hotels.

The fan coil controller is operated using System M or System Design room operator panels. These also allow you to set your own personal comfort temperature.

A sensor for recording the temperature can be directly connected to the fan coil controller. It is also possible to connect external sensors via two floating binary inputs. For example, window contacts, which would ensure automatic reduction of the heating output if a window was open.

For further information, please refer to page 54.

OVERVOLTAGE PROTECTION SOCKET-OUTLETS
ELEGANTLY PACKAGED, ELECTRONIC GUARDIAN ANGELS

Televisions, PCs or hi-fi systems – expensive electrical devices are particularly sensitive to power surges. Merten overvoltage protection socket-outlets can prevent any damage. If lightning were to strike, for example, they isolate the flow of current quickly and reliably. A visual and audible alarm signal indicates that the overvoltage protection has been triggered.

For further information, please refer to page 40.

SCHUKO® overvoltage protection socket-outlet
M-PLAN, aluminium

ETS 3 SOFTWARE

THE NEW SOFTWARE GENERATION

The configuration, maintenance and commissioning of INSTABUS EIB installations is now even more user-friendly and convenient. The newly developed ETS 3 software has an impressively optimised user interface, many useful features and program versions for beginners and advanced users.

ETS 3 Demo Version

This free demo version shows you sample applications and functions of the ETS 3 Starter. Particularly useful: the computer-assisted tutorial.

ETS 3 Starter

Ideal for all those looking for a simple entry-level introduction to the lucrative INSTABUS EIB business. The software has been developed especially for projects in private homes and small to medium-sized commercial properties. Operation is particularly intuitive and user-friendly: use simple drag-and-drop functions to configure your projects. ETS 3 Starter lets you commission a multitude of Merten INSTABUS EIB products. Visit our download pages at www.merten.com to find out exactly which products are included.

ETS 3 Professional

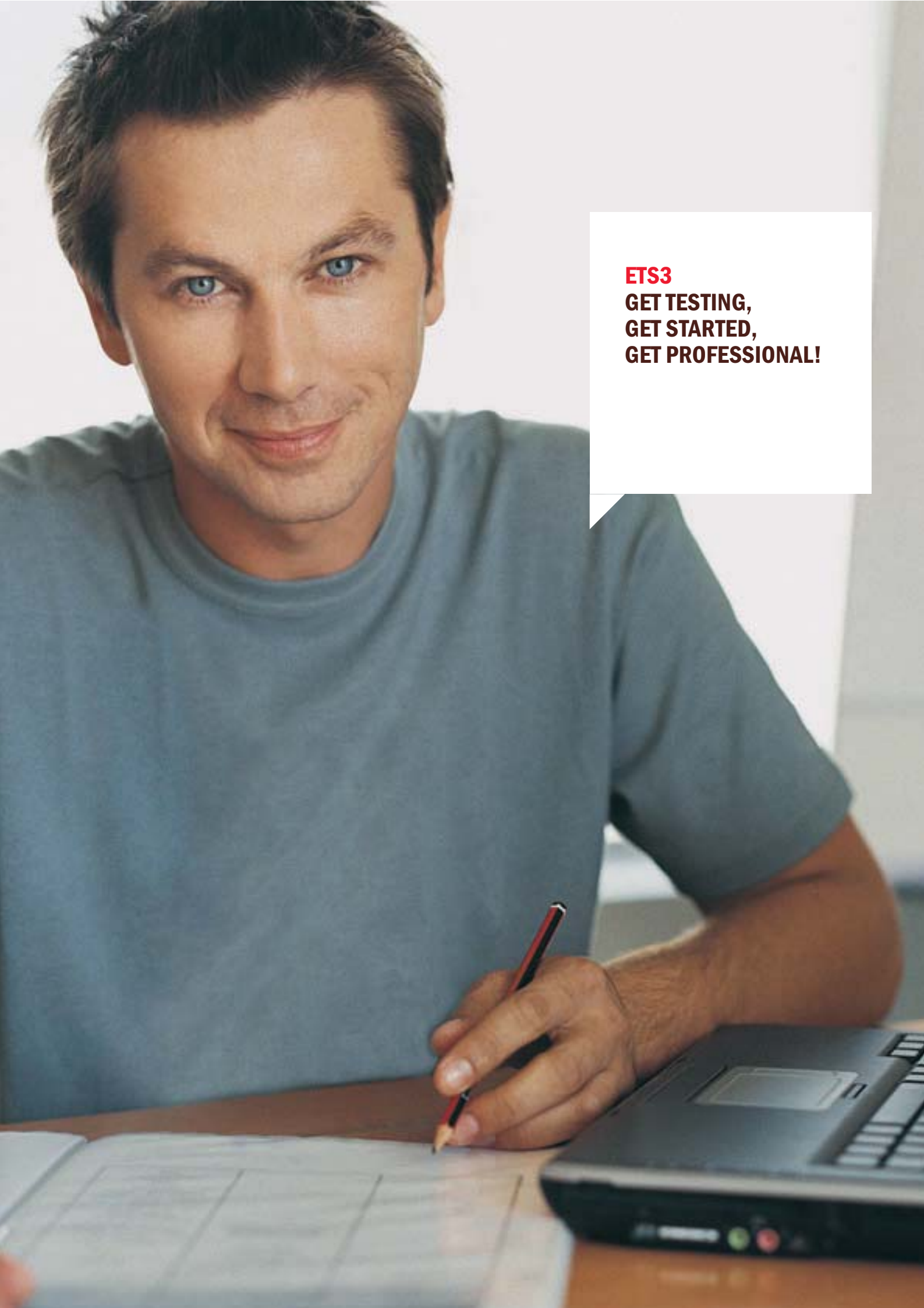
Tap the full potential of INSTABUS EIB for you and your clients.

Program highlights:

- Improved, customisable user interface
- Device programming via RS 232 interface using FT 1.2 protocol
- Device programming also via USB
- Time saving, thanks to parallel device download
- Parameter view as convenient tree topology
- Shared interface for configuration, testing and commissioning
- User-friendly Windows functions, such as “Undo” and “Redo”
- Improved telegram recording and analysis
- Simple execution of many functions using drag-and-drop.

The new ETS 3 is available from EIBA and ETS sales outlets. The software is compatible with operating systems Win 98, NT, Win 2000 and XP. Order now and try out the ETS Starter software for free.

The new ETS software



ETS3
GET TESTING,
GET STARTED,
GET PROFESSIONAL!

AQUADESIGN

Flush-mounted splashproof range, IP44, shatterproof

- Suitable for indoor and outdoor use, and particularly ideal for utility rooms, basement rooms, garages, swimming pools, laboratories, research institutions, as well as patios or balconies.

ROCKER

For two-way switch, intermediate switch and push-button switch inserts.

Type	Art. No.	PU	Mat.	Info
white	**3431 44**	5/120	TP	NEW
polar white	**3431 19**	5/120	TP	NEW
dark brazil	**3431 15**	5/120	TP	NEW
anthracite	**3431 14**	5/120	TP	NEW
aluminium	**3431 60**	5/120	ML	NEW

Contents: Rocker with intermediate plate.

Available in 4th quarter 2004

ROCKER FOR TWO-CIRCUIT SWITCH

For two-circuit and double two-way switch inserts.

Type	Art. No.	PU	Mat.	Info
white	**3435 44**	5/120	TP	NEW
polar white	**3435 19**	5/120	TP	NEW
dark brazil	**3435 15**	5/120	TP	NEW
anthracite	**3435 14**	5/120	TP	NEW
aluminium	**3435 60**	5/120	ML	NEW

Contents: Rocker with intermediate plate.

Available in 4th quarter 2004

ROCKER WITH LABELLING FIELD, ILLUMINATED

For rockers and push-buttons in conjunction with plug-in light attachment E 10 Art.-No. 3965 76 and neon lamp E 10 Art.-No. 3951 ..

Type	Art. No.	PU	Mat.	Info
white	**3439 44**	5/120	TP	NEW
polar white	**3439 19**	5/120	TP	NEW
dark brazil	**3439 15**	5/120	TP	NEW
anthracite	**3439 14**	5/120	TP	NEW
aluminium	**3439 60**	5/120	ML	NEW

Contents: Rocker with intermediate plate.

Available in 4th quarter 2004

NEON LAMP E 10

230 V AC DC / 24 V AC DC

Suitable for plug-in light attachment E 10, Art.-No. 3965 76 or light signal insert Art.-No. 3190 16.

Type	Art. No.	PU	Mat.	Info
230 V AC, red	**3951 20**	1/1		NEW
230 V AC, yellow	**3951 21**	1/1		NEW
230 V AC, green	**3951 22**	1/1		NEW
230 V AC, blue	**3951 23**	1/1		NEW
230 V AC, white	**3951 24**	1/1		NEW
24 V AC, red	**3951 31**	1/1		NEW
24 V AC, yellow	**3951 32**	1/1		NEW
24 V AC, green	**3951 33**	1/1		NEW
24 V AC, blue	**3951 34**	1/1		NEW
24 V AC, white	**3951 35**	1/1		NEW

ROCKER WITH RECTANGULAR OPENING FOR SYMBOLS

For control and push-button switch inserts.

Type	Art. No.	PU	Mat.	Info
white	**3438 44**	5/120	TP	NEW
polar white	**3438 19**	5/120	TP	NEW
anthracite	**3438 14**	5/120	TP	NEW
aluminium	**3438 60**	5/120	ML	NEW

Contents: Rocker with intermediate plate. For PU 10: 4 light, 2 door, 2 bell (clear), 10 neutral (red transparent).

Available in 4th quarter 2004

ROCKER FOR HEATING EMERGENCY SWITCH

With red control window.

For rocker switch inserts Art. No. 3252 00, 3256 00 and 3113 00.

Type	Art. No.	PU	Mat.	Info
white	**3430 44**	5/120	TP	NEW
polar white	**3430 19**	5/120	TP	NEW
anthracite	**3430 14**	5/120	TP	NEW
aluminium	**3430 60**	5/120	ML	NEW

Contents: Rocker with intermediate plate and red transparent window.

Available in 4th quarter 2004

ROCKER FOR SHUTTER SWITCHES AND PUSH-BUTTON SWITCHES

For shutter switch and push-button switch inserts.

Type	Art. No.	PU	Mat.	Info
white	**3434 44**	5/120	TP	NEW
polar white	**3434 19**	5/120	TP	NEW
anthracite	**3434 14**	5/120	TP	NEW
aluminium	**3434 60**	5/120	ML	NEW

Contents: Rocker with intermediate plate.

Available in 4th quarter 2004

CENTRAL PLATE FOR MOMENTARY/MAINTAINED-CONTACT SWITCH INSERT FOR SHUTTERS WITH SEMI-CYLINDER LOCK

For momentary/maintained-contact switch insert for shutters Art.-No. 3185 01 or shutter momentary-contact switch insert Art.-No. 3189 01.

For locks 40 mm in length.

Type	Art. No.	PU	Mat.	Info
white	**3482 44**	1/50	TP	NEW
polar white	**3482 19**	1/50	TP	NEW
anthracite	**3482 14**	1/50	TP	NEW
aluminium	**3482 60**	1/50	ML	NEW

Available in 4th quarter 2004

SCHUKO® SOCKET-OUTLET INSERT WITH HINGED LID

16 A, 250 V AC, DIN 49440

If installing as outdoor socket-outlet with indoor switch, use switch insert Art.-No. 3113 00. With screw terminals. Connecting terminals according to VDE 0620 Part 1.

Type	Art. No.	PU	Mat.	Info
white	**2330 44**	10/40	TP	NEW
polar white	**2330 19**	10/40	TP	NEW
dark brazil	**2330 15**	10/40	TP	NEW
anthracite	**2330 14**	10/40	TP	NEW
aluminium	**2330 60**	10/40	ML	NEW

Available in 4th quarter 2004

SCHUKO® SOCKET-OUTLET INSERT WITH HINGED LID AND LABELLING FIELD

16 A, 250 V AC, DIN 49440

If installing as outdoor socket-outlet with indoor switch, use switch insert Art.-No. 3113 00. With screw terminals. Connecting terminals according to VDE 0620 Part 1.

Type	Art. No.	PU	Mat.	Info
white	**2331 44**	10/40	TP	NEW
polar white	**2331 19**	10/40	TP	NEW
anthracite	**2331 14**	10/40	TP	NEW
aluminium	**2331 60**	10/40	ML	NEW

Available in 4th quarter 2004

SCHUKO® SOCKET-OUTLET INSERT WITH HINGED LID, LABELLING FIELD AND SECURITY LOCK

Different locks

16 A, 250 V AC, DIN 49440

With security lock, 2 keys per socket-outlet, screw terminals. Connecting terminals according to VDE 0620 Part 1.

Type	Art. No.	PU	Mat.	Info
white	**2333 44**	10/40	TP	NEW
polar white	**2333 19**	10/40	TP	NEW
dark brazil	**2333 15**	10/40	TP	NEW
anthracite	**2333 14**	10/40	TP	NEW
aluminium	**2333 60**	10/40	TP	NEW

Available in 4th quarter 2004

SCHUKO® SOCKET-OUTLET INSERT WITH HINGED LID, LABELLING FIELD AND SECURITY LOCK

10 identical locks

16 A, 250 V AC, DIN 49440

With security lock, 2 keys per socket-outlet, screw terminals. Connecting terminals according to VDE 0620 Part 1.

Type	Art. No.	PU	Mat.	Info
white	**2352 44**	10/40	TP	NEW
polar white	**2352 19**	10/40	TP	NEW
anthracite	**2352 14**	10/40	TP	NEW
aluminium	**2352 60**	10/40	TP	NEW

Available in 4th quarter 2004

SCHUKO® SOCKET-OUTLET INSERT WITH HINGED LID, LABELLING FIELD AND SECURITY LOCK

2 identical locks

16 A, 250 V AC, DIN 49440

With security lock, 2 keys per socket-outlet, screw terminals. Connecting terminals according to VDE 0620 Part 1.

Type	Art. No.	PU	Mat.	Info
white	**2353 44**	10/40	TP	NEW
polar white	**2353 19**	10/40	TP	NEW
anthracite	**2353 14**	10/40	TP	NEW
aluminium	**2353 60**	10/40	TP	NEW

Available in 4th quarter 2004

SENSOR SURFACE

Manual control.

For memory super dimmers, relay switches, electronic push-buttons, electronic timer switches, relay timer switches and extension units With short-stroke key.

Type	Art. No.	PU	Mat.	Info
white	**5738 44**	1/100	TP	NEW
polar white	**5738 19**	1/100	TP	NEW
anthracite	**5738 14**	1/100	TP	NEW
aluminium	**5738 60**	1/100	ML	NEW

Available in 4th quarter 2004

ARGUS 180 SENSOR MODULE, FLUSH-MOUNTED

In AQUADESIGN. Splashproof movement detector.

For combination with electronic switch insert Art.-No. 5767 99 or relay switch insert Art.-No. 5768 99.

Number of detection levels:1

Number of zones:	14
Range:	infinitely adjustable up to approx. 8 m
Monitoring range:	180°
Light sensor:	infinitely adjustable from approx. 5 to approx. 1000 lux
Time:	adjustable in steps from approx. 1 s to 8 min

Type	Art. No.	PU	Mat.	Info
white	**5781 44**	1/50	TP	NEW
polar white	**5781 19**	1/50	TP	NEW
dark brazil	**5781 15**	1/50	TP	NEW
anthracite	**5781 14**	1/50	TP	NEW
aluminium	**5781 60**	1/50	ML	NEW

Available in 4th quarter 2004

BLANKING COVER

For use as cover with relays, multi-control relays for shutters Art. No. 5763 99, 5763 98, buzzers, power boosters Art. No. 5740 99, 5773 99, INSTABUS binary input, flush-mounted, 4x10, etc.

Note: If mechanically manipulated (drilling, milling, etc.), the blanking cover has protection rating IP 20.

Type	Art. No.	PU	Mat.	Info
white	**3483 44**	5/120	TP	NEW
polar white	**3483 19**	5/120	TP	NEW
anthracite	**3483 14**	5/120	TP	NEW
aluminium	**3483 60**	5/120	ML	NEW

Contents: with mounting plate.

Available in 4th quarter 2004

INCLINED OUTLET

with labelling field.

For data connection and communication technology.

Please order the relevant inserts separately (Art.-No. 4643 ..).

For AQUADESIGN:

When combined with the insert for Reichle & De-Massari Art.-No. 4643 84, and splash flange Art.-No. 4655 91, the outlet offers protection rating IP 44.

To be labelled with labelling strips Art.-No. 3950 19.

Type	Art. No.	PU	Mat.	Info
white	**4643 44**	1/50	TP	
polar white	**4643 19**	1/50	TP	
aluminium	**4643 60**	1/50	ML	

Contents: without inserts.

INSERT FOR REICHLE & DE-MASSARI

For Reichle & De-Massari connection modules Art.-No. 4655 .. and other R&M modules.

Type	Art. No.	PU	Mat.	Info
black	**4643 84**	10/300	TP	

REICHLE & DE-MASSARI CONNECTION MODULE, UNSHIELDED

For combination with insert for Reichle & De-Massari Art.-No. 4643 84. Connection using insulation displacement method (no tools required).

Type	Art. No.	PU	Mat.	Info
Kat5e, 1xRJ45/u	**4655 80**	1/1		NEW
Kat6, 1xRJ45/u	**4655 82**	1/1		NEW

REICHLE & DE-MASSARI CONNECTION MODULE, SHIELDED

For combination with insert for Reichle & De-Massari Art.-No. 4643 84. Connection using insulation displacement method (no tools required).

Type	Art. No.	PU	Mat.	Info
Kat5e, 1xRJ45/s	**4655 81**	1/1		NEW
Kat6, 1xRJ45/s	**4655 83**	1/1		NEW

REICHLE & DE-MASSARI SPLASH FLANGE

For combination with insert for Reichle & De-Massari Art.-No. 4643 84. In combination with the splash flange, all Reichle & De-Massari modules offer protection rating IP 44.

Type	Art. No.	PU	Mat.	Info
blue	**4655 91**	1/1		NEW

REICHLE & DE-MASSARI SPLASH SLEEVE

The splash sleeve is pulled over the connecting cable. In combination with the splash flange Art.-No. 4655 91, the modules offer protection rating IP 44 even when the connecting cable is plugged in.

Type	Art. No.	PU	Mat.	Info
transparent	**4655 90**	1/1		NEW

INTERMEDIATE RING WITH HINGED LID

The intermediate ring allows inserts for System M to be integrated in AQUADESIGN. Protection rating IP 44 is retained.

Type	Art. No.	PU	Mat.	Info
white	**5165 44**	5/120	TP	NEW
polar white	**5165 19**	5/120	TP	NEW
dark brazil	**5165 15**	5/120	TP	NEW
anthracite	**5165 14**	5/120	TP	NEW
aluminium	**5165 60**	5/120	ML	NEW

Available in 4th quarter 2004

INTERMEDIATE RING WITH TRANSPARENT HINGED LID

The intermediate ring allows electronic inserts for System M to be integrated in AQUADESIGN. Protection rating IP 44 is retained.

Type	Art. No.	PU	Mat.	Info
white	**5169 44**	5/120	TP	NEW
polar white	**5169 19**	5/120	TP	NEW
anthracite	**5169 14**	5/120	TP	NEW
aluminium	**5169 60**	5/120	ML	NEW

Available in 4th quarter 2004

INTERMEDIATE RING WITH HINGED LID AND LABELLING FIELD

The intermediate ring allows inserts for System M to be integrated in AQUADESIGN. Protection rating IP 44 is retained.

Type	Art. No.	PU	Mat.	Info
white	**5166 44**	5/120	TP	NEW
polar white	**5166 19**	5/120	TP	NEW
anthracite	**5166 14**	5/120	TP	NEW
aluminium	**5166 60**	5/120	ML	NEW

Available in 4th quarter 2004

INTERMEDIATE RING WITH HINGED LID, LABELLING FIELD AND SECURITY LOCK

Different locks

The intermediate ring allows inserts for System M to be integrated in AQUADESIGN. Protection rating IP 44 is retained.

Type	Art. No.	PU	Mat.	Info
white	**5163 44**	4/96	TP	NEW
polar white	**5163 19**	4/96	TP	NEW
anthracite	**5163 14**	4/96	TP	NEW
aluminium	**5163 60**	4/96	ML	NEW

Available in 4th quarter 2004

ADAPTER

The adapter allows inserts for System M to be integrated in AQUADESIGN. Protection rating IP 20

Type	Art. No.	PU	Mat.	Info
white	**5183 44**	10/240	TP	NEW
polar white	**5183 19**	10/240	TP	NEW
anthracite	**5183 14**	10/240	TP	NEW
aluminium	**5183 60**	10/240	ML	NEW

Available in 4th quarter 2004

AQUADESIGN FRAME, 1-GANG

Type	Art. No.	PU	Mat.	Info
white	**4001 44**	10/60	TP	NEW
polar white	**4001 19**	10/60	TP	NEW
dark brazil	**4001 15**	10/60	TP	NEW
anthracite	**4001 14**	10/60	TP	NEW
aluminium	**4001 60**	10/60	ML	NEW

Available in 4th quarter 2004

AQUADESIGN FRAME, 2-GANG

For vertical and horizontal assembly.

Type	Art. No.	PU	Mat.	Info
white	**4002 44**	8/32	TP	NEW
polar white	**4002 19**	8/32	TP	NEW
dark brazil	**4002 15**	8/32	TP	NEW
anthracite	**4002 14**	8/32	TP	NEW
aluminium	**4002 60**	8/32	ML	NEW

Available in 4th quarter 2004

AQUADESIGN FRAME, 3-GANG

For vertical and horizontal assembly.

Type	Art. No.	PU	Mat.	Info
white	**4003 44**	2/14	TP	NEW
polar white	**4003 19**	2/14	TP	NEW
dark brazil	**4003 15**	2/14	TP	NEW
anthracite	**4003 14**	2/14	TP	NEW
aluminium	**4003 60**	2/14	ML	NEW

Available in 4th quarter 2004

AQUADESIGN FRAME, 4-GANG

For vertical and horizontal assembly.

Type	Art. No.	PU	Mat.	Info
white	**4004 44**	2/14	TP	NEW
polar white	**4004 19**	2/14	TP	NEW
anthracite	**4004 14**	2/14	TP	NEW
aluminium	**4004 60**	2/14	ML	NEW

Available in 4th quarter 2004

AQUADESIGN FRAME WITH SCREWED CONNECTION, 1-GANG

Type	Art. No.	PU	Mat.	Info
white	**4011 44**	10/60	TP	NEW
polar white	**4011 19**	10/60	TP	NEW
dark brazil	**4011 15**	10/60	TP	NEW
anthracite	**4011 14**	10/60	TP	NEW
aluminium	**4011 60**	10/60	ML	NEW

Contents: with screws and sealing plugs.

Available in 4th quarter 2004

AQUADESIGN FRAME WITH SCREW CONNECTION, 2-GANG

For vertical and horizontal assembly.

Type	Art. No.	PU	Mat.	Info
white	**4012 44**	8/32	TP	NEW
polar white	**4012 19**	8/32	TP	NEW
dark brazil	**4012 15**	8/32	TP	NEW
anthracite	**4012 14**	8/32	TP	NEW
aluminium	**4012 60**	8/32	ML	NEW

Contents: with screws and sealing plugs.

Available in 4th quarter 2004

AQUADESIGN FRAME WITH SCREW CONNECTION, 3-GANG

For vertical and horizontal assembly.

Type	Art. No.	PU	Mat.	Info
white	**4013 44**	2/14	TP	NEW
polar white	**4013 19**	2/14	TP	NEW
dark brazil	**4013 15**	2/14	TP	NEW
anthracite	**4013 14**	2/14	TP	NEW
aluminium	**4013 60**	2/14	ML	NEW

Contents: with screws and sealing plugs.

Available in 4th quarter 2004

AQUADESIGN FRAME WITH SCREW CONNECTION, 4-GANG

For vertical and horizontal assembly.

Type	Art. No.	PU	Mat.	Info
white	**4014 44**	2/14	TP	NEW
polar white	**4014 19**	2/14	TP	NEW
anthracite	**4014 14**	2/14	TP	NEW
aluminium	**4014 60**	2/14	ML	NEW

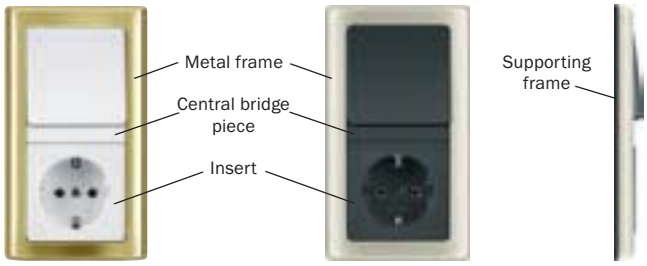
Contents: with screws and sealing plugs.

Available in 4th quarter 2004

M-STAR FRAME

Metal frame in satin silver, chrome and polished brass.

- For combination with all System M inserts.
- Metal frame, central bridge piece and supporting frame form one unit for M-STAR. When ordering, ensure that the central bridge piece/supporting frame and inserts are the same colour.



M-STAR FRAME, 1-GANG

The metal frames in satin silver, chrome and polished brass are each available with supporting frames in different colours (white, polar white, anthracite). When ordering, ensure that the supporting frame and insert are the same colour.

Type	Art. No.	PU	Mat.	Info
satin silver/ white	**4671 44**	2/176	M	NEW
satin silver/ polar white	**4671 19**	2/176	M	NEW
satin silver/ anthracite	**4671 14**	2/176	M	NEW
chrome/ white	**4771 44**	2/176	M	NEW
chrome/ polar white	**4771 19**	2/176	M	NEW
chrome/ anthracite	**4771 14**	2/176	M	NEW
polished brass/ white	**4871 44**	2/176	M	NEW
polished brass/ polar white	**4871 19**	2/176	M	NEW
polished brass/ anthracite	**4871 14**	2/176	M	NEW

Available in 1st quarter 2005

M-STAR FRAME, 2-GANG

The metal frames in satin silver, chrome and polished brass are each available with central bridge pieces/supporting frames in different colours (white, polar white, anthracite). When ordering, ensure that the central bridge piece/supporting frame and inserts are the same colour. For vertical and horizontal assembly.

Type	Art. No.	PU	Mat.	Info
satin silver/ white	**4672 44**	2/96	M	NEW
satin silver/ polar white	**4672 19**	2/96	M	NEW
satin silver/ anthracite	**4672 14**	2/96	M	NEW
chrome/ white	**4772 44**	2/96	M	NEW
chrome/ polar white	**4772 19**	2/96	M	NEW
chrome/ anthracite	**4772 14**	2/96	M	NEW
polished brass/ white	**4872 44**	2/96	M	NEW
polished brass/ polar white	**4872 19**	2/96	M	NEW
polished brass/ anthracite	**4872 14**	2/96	M	NEW

Available in 1st quarter 2005

M-STAR FRAME, 3-GANG

The metal frames in satin silver, chrome and polished brass are each available with central bridge pieces/supporting frames in different colours (white, polar white, anthracite). When ordering, ensure that the central bridge piece/supporting frame and inserts are the same colour. For vertical and horizontal assembly.

Type	Art. No.	PU	Mat.	Info
satin silver/ white	**4673 44**	2/64	M	NEW
satin silver/ polar white	**4673 19**	2/64	M	NEW
satin silver/ anthracite	**4673 14**	2/64	M	NEW
chrome/ white	**4773 44**	2/64	M	NEW
chrome/ polar white	**4773 19**	2/64	M	NEW
chrome/ anthracite	**4773 14**	2/64	M	NEW
polished brass/ white	**4873 44**	2/64	M	NEW
polished brass/ polar white	**4873 19**	2/64	M	NEW
polished brass/ anthracite	**4873 14**	2/64	M	NEW

Available in 1st quarter 2005

M-PLAN REAL GLASS FRAMES

■ Safety glass with a thickness of 6 mm.

M-PLAN REAL GLASS FRAME, 1-GANG

Type	Art. No.	PU	Mat.	Info
diamond	**4891 60**	1/88	Glass	NEW
sapphire	**4891 78**	1/88	Glass	NEW
ruby red	**4891 06**	1/88	Glass	NEW
mahogany	**4891 15**	1/88	Glass	NEW

M-PLAN REAL GLASS FRAME, 2-GANG

For vertical and horizontal assembly.

Type	Art. No.	PU	Mat.	Info
diamond	**4892 60**	1/48	Glass	NEW
sapphire	**4892 78**	1/48	Glass	NEW
ruby red	**4892 06**	1/48	Glass	NEW
mahogany	**4892 15**	1/48	Glass	NEW

M-PLAN REAL GLASS FRAME, 3-GANG

For vertical and horizontal assembly.

Type	Art. No.	PU	Mat.	Info
diamond	**4893 60**	1/32	Glass	NEW
sapphire	**4893 78**	1/32	Glass	NEW
ruby red	**4893 06**	1/32	Glass	NEW
mahogany	**4893 15**	1/32	Glass	NEW

M-SMART FRAME WITH LABELLING BRACKET

■ Also suitable for installation in trunking systems.

M-SMART FRAME, 1-GANG WITH LABELLING BRACKET

For the clear identification of inserts. When dismantling the frame and central plate, the labelling bracket stays on the insert. This means you are always assured of the correct match of switches and sockets/EIB components which is particularly useful if you are decorating, for example.

For use with labelling strips Art.-No. 4841 00.

Type	Art. No.	PU	Mat.	Info
white	**4741 44**	2/176	TP	NEW
polar white	**4741 19**	2/176	TP	NEW

Contents: Per frame, 1 labelling strip and 1 window.

M-SMART FRAME, 2-GANG WITH LABELLING BRACKET, VERTICAL INSTALLATION

For the clear identification of inserts. When dismantling the frame and central plate, the labelling bracket stays on the insert. This means you are always assured of the correct match of switches and sockets/EIB components which is particularly useful if you are decorating, for example.

For use with labelling strips Art.-No. 4841 00.

Type	Art. No.	PU	Mat.	Info
white	**4742 44**	2/96	TP	NEW
polar white	**4742 19**	2/96	TP	NEW

Contents: Per frame, 2 labelling strips and 2 windows.

M-SMART FRAME, 3-GANG WITH LABELLING BRACKET, VERTICAL INSTALLATION

For the clear identification of inserts. When dismantling the frame and central plate, the labelling bracket stays on the insert. This means you are always assured of the correct match of switches and sockets/EIB components which is particularly useful if you are decorating, for example.

For use with labelling strips Art.-No. 4841 00.

Type	Art. No.	PU	Mat.	Info
white	**4743 44**	2/64	TP	NEW
polar white	**4743 19**	2/64	TP	NEW

Contents: Per frame, 3 labelling strips and 3 windows.

M-SMART FRAME, 2-GANG WITH LABELLING BRACKET, HORIZONTAL INSTALLATION

For the clear identification of inserts. When dismantling the frame and central plate, the labelling bracket stays on the insert. This means you are always assured of the correct match of switches and sockets/EIB components which is particularly useful if you are decorating, for example.

For use with labelling strips Art.-No. 4841 00.

Type	Art. No.	PU	Mat.	Info
white	**4732 44**	2/96	TP	NEW
polar white	**4732 19**	2/96	TP	NEW

Contents: Per frame, 2 labelling strips and 2 windows.

M-SMART FRAME, 3-GANG WITH LABELLING BRACKET, HORIZONTAL INSTALLATION

For the clear identification of inserts. When dismantling the frame and central plate, the labelling bracket stays on the insert. This means you are always assured of the correct match of switches and sockets/EIB components which is particularly useful if you are decorating, for example.

For use with labelling strips Art.-No. 4841 00.

Type	Art. No.	PU	Mat.	Info
white	**4733 44**	2/64	TP	NEW
polar white	**4733 19**	2/64	TP	NEW

Contents: Per frame, 3 labelling strips and 3 windows.

LABELLING STRIPS FOR M-SMART FRAME WITH LABELLING BRACKET

For the individual labelling of M-SMART frames with labelling brackets. The labelling software can be ordered separately under Art. No. 6150 22.

Type	Art. No.	PU	Mat.	Info
polar white	**4841 00**	1/100		NEW

Contents: 1 sheet for 36 windows.

SYSTEM M - LED LIGHT SIGNAL

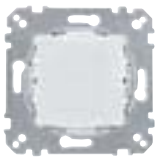
CENTRAL PLATE WITH WINDOW

For LED light signal insert Art.-No. 5870 90, 5870 91, 5870 92.

The labelling software Art.-Nr. 6150 22 is available for individual labelling. If you already have the labelling software, you can download the form for the central plate at www.merten.de. Use commercially available labelling sheets.

Alternatively, you can order pre-printed labelling sheet sets under Art.-No. 5870 95, 5870 96.

Type	Art. No.	PU	Mat.	Info
white	**5870 44**	1/100	TP	NEW
polar white	**5870 19**	1/100	TP	NEW
anthracite	**5870 14**	1/100	TP	NEW
aluminium	**5870 60**	1/100	ML	NEW



LED LIGHT SIGNAL INSERT, SINGLE-COLOUR

Display unit with optional red or green illumination. For combination with central plate with window Art.-No. 5870 .... The light signal insert is controlled using the two-way switch insert Art.-No. 3116 00.

Power supply: 120 V-230 V AC / 60 Hz, 1.6 W
150 V-230 V AC / 50 Hz, 1.3 W

Type	Art. No.	PU	Mat.	Info
green	**5870 90**	1/50		NEW
red	**5870 91**	1/50		NEW

Contents: 5 pre-printed labelling sheets in negative print (Lift with arrow, toilet with arrow, stairs with arrow, exit with arrow left, exit with arrow right).

LED LIGHT SIGNAL INSERT, TWO-COLOUR

Display unit with red/green illumination. For combination with central plate with window Art.-No. 5870 ....

The light signal insert is controlled using the shutter switch insert Art.-No. 3115 01. If both display areas are to be illuminated simultaneously, it must be combined with the two-circuit switch insert Art.-No. 3115 00.

Power supply: 120 V-230 V AC / 60 Hz, 1.6 W
150 V-230 V AC / 50 Hz, 1.3 W

Type	Art. No.	PU	Mat.	Info
red/green	**5870 92**	1/50		NEW

Contents: 4 pre-printed labelling sheets in positive print (do not disturb/make up room, occupied / free).

ROCKER FOR TWO-CIRCUIT SWITCH WITH IMPRINT

For shutter switch insert Art.-Nr. 3115 01, as well as two-circuit switch, double two-way switch and double push-button switch inserts. With imprint: "DO NOT DISTURB" and "MAKE UP ROOM".

Type	Art. No.	PU	Mat.	Info
white	**4356 44**	5/225	TP	NEW
polar white	**4356 19**	5/225	TP	NEW
aluminium	**4356 60**	5/225	ML	NEW

LABELLING SHEET SET FOR LED LIGHT SIGNAL INSERT

Labelling sheets for LED light signal inserts Art.-No. 5870 90, 5870 91, 5870 92.

Type	Art. No.	PU	Mat.	Info
Positive print	**5870 95**	1/150		NEW
Negative print	**5870 96**	1/150		NEW

Contents: 12 labelling sheets, each with imprint (Stairs left/right, Lift left/right, Toilet left/right, Exit left/right, do not disturb / make up room, occupied / free).

SYSTEM M - ORIENTATION SIGN

ORIENTATION SIGN

Information sign for the identification of rooms and/or routes. To be combined with frame, 2-gang without central bridge piece, in M-PLAN design Art-No. 5873 ... With protection against dismantling. The labelling software Art.-Nr. 6150 22 is available for individual labelling. If you already have the labelling software, you can download the form for the orientation sign at www.merten.de. Use commercially available labelling sheets.

Type	Art. No.	PU	Mat.	Info
white	**5872 44**	1/48	TP	NEW
polar white	**5872 19**	1/48	TP	NEW
anthracite	**5872 14**	1/48	TP	NEW
aluminium	**5872 60**	1/48	ML	NEW

ORIENTATION SIGN, ILLUMINATED

Illuminated information sign (LEDs) for the identification of rooms and/or routes. To be combined with power supply, flush-mounted Art.-No. 5871 99 and frame, 2-gang without central bridge piece, in M-PLAN design Art-No. 5873 ... With protection against dismantling. The labelling software Art.-Nr. 6150 22 is available for individual labelling. If you already have the labelling software, you can download the form for the orientation sign at www.merten.de. Use commercially available labelling sheets.

Type	Art. No.	PU	Mat.	Info
white	**5871 44**	1/40	TP	NEW
polar white	**5871 19**	1/40	TP	NEW
anthracite	**5871 14**	1/40	TP	NEW
aluminium	**5871 60**	1/40	ML	NEW

POWER SUPPLY, FLUSH-MOUNTED

For orientation sign, illuminated Art.-No. 5871 ..
Control via e.g. a two-way switch insert Art.-No. 3116 00, via radio with radio receiver, flush-mounted, 1-gang Art.-No. 5925 91 or using INSTA-BUS EIB with switch actuator, flush-mounted, UP/230/16 Art.-No. 6299 99.

Power supply: 120 V-230 V AC / 60 Hz
150 V-230 V AC / 50 Hz

Type	Art. No.	PU	Mat.	Info
	5871 99	1/60		NEW

FRAME, 2-GANG WITHOUT CENTRAL BRIDGE PIECE

In M-PLAN design. For vertical and horizontal assembly. Special frame for orientation sign Art.-No. 5871 .., 5872 .., multi-function push-button, 4-fold with room temperature control unit Art.-No. 6236 ... or shaver socket insert Art.-No. 2131 00.

Dimensions: 85.8 x 159 mm (HxW)

Type	Art. No.	PU	Mat.	Info
white	**5873 44**	2/96	TP	NEW
polar white	**5873 19**	2/96	TP	NEW
anthracite	**5873 14**	2/96	TP	NEW
aluminium	**5873 60**	2/96	ML	NEW

SYSTEM M - SPLASHPROOF

■ For combination with M-SMART, M-ARC and M-PLAN frames.

ROCKER

For two-way switch, intermediate switch and push-button switch inserts Splashproof

Type of protection: IP 44

IP 44

Type	Art. No.	PU	Mat.	Info
white	**4330 44**	1/60	TP	NEW
polar white	**4330 19**	1/60	TP	NEW
anthracite	**4330 14**	1/60	TP	NEW
aluminium	**4330 60**	1/60	ML	NEW

Contents: Rocker with sealing set, 2-piece

ROCKER WITH RECTANGULAR OPENING FOR SYMBOLS

For control and push-button switch inserts Splashproof

Type of protection: IP 44

IP 44

Type	Art. No.	PU	Mat.	Info
white	**4337 44**	1/60	TP	NEW
polar white	**4337 19**	1/60	TP	NEW
anthracite	**4337 14**	1/60	TP	NEW
aluminium	**4337 60**	1/60	ML	NEW

Contents: Rocker with sealing set, 2-piece,
Symbols: 1 light, 1 bell (clear), 1 neutral (red transparent)

SCHUKO® SOCKET-OUTLET INSERT WITH HINGED LID

16 A, 250 V AC, DIN 49440
Splashproof
Type of protection: IP 44

IP 44

Type	Art. No.	PU	Mat.	Info
white	**2366 44**	1/50	TP	NEW
polar white	**2366 19**	1/50	TP	NEW
anthracite	**2366 14**	1/50	TP	NEW
aluminium	**2366 60**	1/50	ML	NEW

Contents: Socket with sealing ring

SYSTEM M - SHAVER SOCKET

SHAVER SOCKET INSERT

IEC742 / EN60742

To be combined with central plate for shaver socket Art.-No. 2131 .. and frame, 2-gang without central bridge piece, in M-PLAN design Art.-No. 5873 ...
For Euro connectors and Chinese 2-pin connector.
Secondary voltages can be tapped directly in two plug-in positions.
For installation in commercially available flush-mounted double cavity wall sockets/flush-mounted sokkets according to DIN 49073, e.g. Kaiser sockets Art.-No. 9062-77 (cavity wall) or Art. No. 1656-02 (flush-mounted). With screw terminals up to 2.5 mm².

Primary: 230 V AV - 240 V, 50/60 Hz
Secondary: 20 VA, 115 V AC / 230 V - 240 V, 50/60 Hz

Type	Art. No.	PU	Mat.	Info
	2131 00	1/10		NEW

CENTRAL PLATE FOR SHAVER SOCKET

Central plate for shaver socket insert Art.-No. 2131 00.

Type	Art. No.	PU	Mat.	Info
polar white	**2131 19**	2/96	TP	NEW
aluminium	**2131 60**	2/96	ML	NEW

FRAME, 2-GANG WITHOUT CENTRAL BRIDGE PIECE

In M-PLAN design. For vertical and horizontal assembly. Special frame for orientation sign
Art.-No. 5871 .., 5872 .., multi-function push-button, 4-fold with room temperature control unit
Art.-No. 6236 ... or shaver socket insert Art.-No. 2131 00.

Dimensions: 85.8 x 159 mm (HxW)

Type	Art. No.	PU	Mat.	Info
white	**5873 44**	2/96	TP	NEW
polar white	**5873 19**	2/96	TP	NEW
anthracite	**5873 14**	2/96	TP	NEW
aluminium	**5873 60**	2/96	ML	NEW

SYSTEM M - COMPONENTS FOR RITTO TWINBUS

CENTRAL PLATE FOR FLUSH-MOUNTED RITTO INTERCOM SYSTEM

with loudspeaker and microphone. For combination with push-button, 2-fold Art.-No. 6234 ... and the flush-mounted intercom system from Ritto Art.-No. 17136/00. **For Ritto TwinBus.**

Type	Art. No.	PU	Mat.	Info
white	**5345 44**	1/1	TP	NEW
polar white	**5345 19**	1/1	TP	NEW
anthracite	**5345 14**	1/1	TP	NEW
aluminium	**5345 60**	1/1	ML	NEW

PUSH-BUTTON, 2-FOLD

Application module in System M design. For plugging onto flush-mounted bus coupling unit
Art.-No. 6900 99 or onto the flush-mounted-switch, two-circuit or shutter actuator Art.-No. 627x 99. Readiness for operation is indicated by LEDs next to the operating buttons. With various applications for the functions: Switching, dimming, shutters, edges and status indication.
For Ritto TwinBus: For combination with the flush-mounted intercom system from Ritto Art.-No. 17136/00.

Type	Art. No.	PU	Mat.	Info
white	**6234 44**	1/100	TP	NEW
polar white	**6234 19**	1/100	TP	
anthracite	**6234 14**	1/100	TP	
aluminium	**6234 60**	1/100	ML	

SYSTEM M - CENTRAL PLATES, SOCKET-OUTLETS

SCHUKO® SOCKET-OUTLET INSERT WITH HINGED LID AND CHILD PROTECTION

16 A, 250 V AC, DIN 49440
Increased contact protection according to VDE 0620 Part 1.

Type	Art. No.	PU	Mat.	Info
white	**2374 44**	10/50	TP	NEW
polar white	**2374 19**	10/50	TP	NEW
anthracite	**2374 14**	10/50	TP	NEW
aluminium	**2374 60**	10/50	ML	NEW

SCHUKO® SOCKET-OUTLET INSERT WITH OVERVOLTAGE PROTECTION

16 A, 250 V AC, DIN 49440
Protects electronic devices against overvoltages. With monitoring equipment and arrestor disconnector, optical function indication (green LED) and acoustic signal. With screw terminals.
Rated
impulse voltage: 250 V AC
Surge voltage (8/10):4 kV
Protection level: < 1.3 kV
Nominal current: 16 A

Type	Art. No.	PU	Mat.	Info
white	**2768 44**	10/40	TP	NEW
polar white	**2768 19**	10/40	TP	NEW
anthracite	**2768 14**	10/40	TP	NEW
aluminium	**2768 60**	10/40	ML	NEW

Contents: 2 labels with imprint "Overvoltage protection" in black and white lettering.

CENTRAL PLATE FOR UAE INSERT, 1-FOLD

For UAE inserts from Rutenbeck or E-DATdesign from BTR.

Type	Art. No.	PU	Mat.	Info
white	**2983 44**	10/120	TP	NEW
polar white	**2983 19**	10/120	TP	NEW
anthracite	**2983 14**	10/120	TP	NEW
aluminium	**2983 60**	10/120	ML	NEW

SYSTEM M - VISUAL CALL SYSTEMS

Central plates for ZETTLER® VarioLine.

- For combination with frames in M-SMART, M-ARC and M-PLAN designs.
- The central plates are compatible with all ZETTLER® visual call systems.
- For clinics, homes for the elderly, homes for the disabled and sanatoriums.

CENTRAL PLATE FOR VARIOLINE NEUTRAL

Type	Art. No.	PU	Mat.	Info
polar white	**4480 19**	5/225	TP	NEW

CENTRAL PLATE FOR VARIOLINE PULL SWITCH

Type	Art. No.	PU	Mat.	Info
polar white	**4481 19**	5/225	TP	NEW

CENTRAL PLATE FOR VARIOLINE, 1 BUTTON

Type	Art. No.	PU	Mat.	Info
polar white	**4482 19**	5/225	TP	NEW

CENTRAL PLATE FOR VARIOLINE, 2 BUTTONS

Type	Art. No.	PU	Mat.	Info
polar white	**4483 19**	5/225	TP	NEW

CENTRAL PLATE FOR VARIOLINE SOCKET

Type	Art. No.	PU	Mat.	Info
polar white	**4484 19**	5/225	TP	NEW

CENTRAL PLATE FOR VARIOLINE SOCKET, 1 BUTTON

Type	Art. No.	PU	Mat.	Info
polar white	**4485 19**	5/225	TP	NEW

CENTRAL PLATE FOR VARIOLINE SOCKET, 2 BUTTONS

Type	Art. No.	PU	Mat.	Info
polar white	**4486 19**	5/225	TP	NEW

M-SMART - VISUAL AND ACOUSTIC CALL SYSTEMS

Cover plates for nurse call systems "clino com 95", "clino opt 99" and "clino com 21" from Ackermann.

- Cover plates for individual devices in M-SMART design.
- You can obtain the relevant inserts directly from Ackermann.
- For clinics, homes for the elderly, homes for the disabled and sanatoriums.

COVER PLATE FOR BUS TERMINAL SWITCH AND EMPTY UNIT

The cover plate corresponds to the Ackermann cover plate, Art.-No. 88910 A3.

Type	Art. No.	PU	Mat.	Info
polar white	**4450 19**	5/120	TP	NEW

COVER PLATE FOR CALL MODULE WITH CALL BUTTON

The cover plate corresponds to the Ackermann cover plate, Art.-No. 88881 K3.

Type	Art. No.	PU	Mat.	Info
polar white	**4451 19**	5/120	TP	NEW

COVER PLATE FOR CALL MODULE WITH CALL BUTTON AND SWITCH PLUG

The cover plate corresponds to the Ackermann cover plate, Art.-No. 88881 L3.

Type	Art. No.	PU	Mat.	Info
polar white	**4452 19**	5/120	TP	NEW

COVER PLATE FOR CALL MODULE WITH CALL BUTTON AND SWITCH PLUGS

The cover plate corresponds to the Ackermann cover plate, Art.-No. 88881 J3.

Type	Art. No.	PU	Mat.	Info
polar white	**4453 19**	5/120	TP	NEW

COVER PLATE FOR CALL BUTTONS

The cover plate corresponds to the Ackermann cover plate, Art.-No. 88881 G3.

Type	Art. No.	PU	Mat.	Info
polar white	**4454 19**	5/120	TP	NEW

COVER PLATE FOR CALL BUTTONS/DOCTOR CALL BUTTON

The cover plate corresponds to the Ackermann cover plate, Art.-No. 88881 D3.

Type	Art. No.	PU	Mat.	Info
polar white	**4455 19**	5/120	TP	NEW

COVER PLATE FOR CALL BUTTON WITH SWITCH PLUG

The cover plate corresponds to the Ackermann cover plate, Art.-No. 88881 A3.

Type	Art. No.	PU	Mat.	Info
polar white	**4456 19**	5/120	TP	NEW

COVER PLATE FOR PULL SWITCH

The cover plate corresponds to the Ackermann cover plate, Art.-No. 88880 A3.

Type	Art. No.	PU	Mat.	Info
polar white	**4457 19**	5/120	TP	NEW

COVER PLATE FOR PNEUMATIC CALL BUTTON

The cover plate corresponds to the Ackermann cover plate, Art.-No. 88880 C3.

Type	Art. No.	PU	Mat.	Info
polar white	**4458 19**	5/120	TP	NEW

COVER PLATE FOR CALL UNIT AS SWITCH PLUG

The cover plate corresponds to the Ackermann cover plate, Art.-No. 88911 B3.

Type	Art. No.	PU	Mat.	Info
polar white	**4459 19**	5/120	TP	NEW

COVER PLATE FOR CALL UNIT AS SWITCH PLUGS

The cover plate corresponds to the Ackermann cover plate, Art.-No. 88911 C3.

Type	Art. No.	PU	Mat.	Info
polar white	**4460 19**	5/120	TP	NEW

COVER PLATE FOR CALL UNIT AS DIAGNOSTIC/SWITCH PLUG

The cover plate corresponds to the Ackermann cover plate, Art.-No. 88912 E3.

Type	Art. No.	PU	Mat.	Info
polar white	**4461 19**	5/120	TP	NEW

COVER PLATE FOR CALL UNIT AS DIAGNOSTIC PLUG

The cover plate corresponds to the Ackermann cover plate, Art.-No. 88912 A3.

Type	Art. No.	PU	Mat.	Info
polar white	**4462 19**	5/120	TP	NEW

COVER PLATE FOR CALL UNIT AS DIAGNOSTIC PLUGS

The cover plate corresponds to the Ackermann cover plate, Art.-No. 88912 D3.

Type	Art. No.	PU	Mat.	Info
polar white	**4463 19**	5/120	TP	NEW

COVER PLATE FOR CALL/CUTOUT BUTTON

The cover plate corresponds to the Ackermann cover plate, Art.-No. 88882 A3.

Type	Art. No.	PU	Mat.	Info
polar white	**4464 19**	5/120	TP	NEW

COVER PLATE FOR CUTOUT BUTTON, GREEN

The cover plate corresponds to the Ackermann cover plate, Art.-No. 88881 H3.

Type	Art. No.	PU	Mat.	Info
polar white	**4465 19**	5/120	TP	NEW

COVER PLATE FOR CUTOUT BUTTON, YELLOW

The cover plate corresponds to the Ackermann cover plate, Art.-No. 88881 M3.

Type	Art. No.	PU	Mat.	Info
polar white	**4466 19**	5/120	TP	NEW

COVER PLATE FOR CUTOUT BUTTON

The cover plate corresponds to the Ackermann cover plate, Art.-No. 88882 B3.

Type	Art. No.	PU	Mat.	Info
polar white	**4467 19**	5/120	TP	NEW

COVER PLATE FOR BUS CONNECTION UNIT

The cover plate corresponds to the Ackermann cover plate, Art.-No. 88911 J3.

Type	Art. No.	PU	Mat.	Info
polar white	**4468 19**	5/120	TP	NEW

COVER PLATE FOR STUDY UNIT

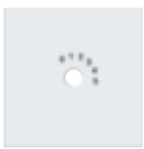
The cover plate corresponds to the Ackermann cover plate, Art.-No. 88882 C3.

Type	Art. No.	PU	Mat.	Info
polar white	**4472 19**	5/120	TP	NEW

COVER PLATE FOR RADIO UNIT

The cover plate corresponds to the Ackermann cover plate, Art.-No. 88912 K3.

Type	Art. No.	PU	Mat.	Info
polar white	**4469 19**	5/120	TP	NEW



COVER PLATE FOR STATION SELECTION SWITCH

The cover plate corresponds to the Ackermann cover plate, Art.-No. 88912 H3.

Type	Art. No.	PU	Mat.	Info
polar white	**4470 19**	5/120	TP	NEW

SYSTEM DESIGN - CENTRAL PLATES, SOCKET-OUTLETS

HOTEL KEYCARD HOLDER

For combination with push-button switch inserts, Art.-No. 3150 00, 3159 00 or 3159 01.

Type	Art. No.	PU	Mat.	Info
white	**3153 44**	1/100	TP	NEW
polar white	**3153 19**	1/100	TP	NEW
aluminium	**3153 60**	1/100	ML	NEW
stainless steel	**3153 46**	1/100	M	NEW

SCHUKO® SOCKET-OUTLET INSERT WITH HINGED LID AND CHILD PROTECTION

16 A, 250 V AC, DIN 49440

Increased contact protection according to VDE 0620 Part 1.

Type	Art. No.	PU	Mat.	Info
white	**2378 44**	10/50	TP	NEW
polar white	**2378 19**	10/50	TP	NEW
vanilla	**2378 82**	10/50	TP	NEW
ice blue	**2378 88**	10/50	TP	NEW
light grey	**2378 29**	10/50	TP	NEW
ruby red	**2378 06**	10/50	TP	NEW
midnight blue	**2378 78**	10/50	TP	NEW
dark brazil	**2378 15**	10/50	TP	NEW
black grey	**2378 69**	10/50	TP	NEW
aluminium	**2378 60**	10/50	ML	NEW
stainless steel	**2378 46**	10/40	M	NEW

CENTRAL PLATE FOR UAE INSERT, 1-FOLD

For UAE inserts from Rutenbeck or E-DATdesign from BTR.

Type	Art. No.	PU	Mat.	Info
white	**2918 44**	10/120	TP	NEW
polar white	**2918 19**	10/120	TP	NEW
aluminium	**2918 60**	10/120	ML	NEW
stainless steel	**2918 46**	10/120	M	NEW

TRANCENT SOCKETS

TRANCENT SOCKET GLASS COVER, 2-GANG

The 2-gang socket glass cover is combined with:
- 2x socket-outlet insert Art.-No. 2306 60
- TRANCENT frame, 2-gang Art.-No. 4822 60

Type	Art. No.	PU	Mat.	Info
transparent	**5682 00**	1/15	Glass	NEW
satinated	**5682 01**	1/15	Glass	NEW

Contents: with cover film and spacer.

TRANCENT SOCKET GLASS COVER, 3-GANG

The 3-gang socket glass cover is combined with:
- 3x socket-outlet insert Art.-No. 2306 60
- TRANCENT frame, 3-gang Art.-No. 4823 60

Type	Art. No.	PU	Mat.	Info
transparent	**5683 00**	1/15	Glass	NEW
satinated	**5683 01**	1/15	Glass	NEW

Contents: with cover film and spacer.

SYSTEM BASIS - CENTRAL PLATES

CENTRAL PLATE FOR UAE INSERT, 1-FOLD

For UAE inserts from Rutenbeck or E-DATdesign from BTR.

Type	Art. No.	PU	Mat.	Info
white	**2917 74**	10/120	TP	NEW
polar white	**2917 19**	10/120	TP	NEW

UNIVERSAL SOCKET-OUTLETS

UNIVERSAL SOCKET-OUTLET INSERT, 3-POLE

13 A, 250 V AC

In System M design. For Euro connectors (2.5 A), British standard connectors (13 A), Chinese connectors, 3-pole (10 A), Chinese connectors 2/3-pole without earthing contact(10 A).

It is not permitted to use these inserts in combination with French/Belgian earthing contact and connectors acccording to DIN 49441 (e.g. SCHUKO® connector). With child protection.

Type	Art. No.	PU	Mat.	Info
polar white	**2052 19**	10	TP	NEW

Items available on request.

UNIVERSAL SOCKET-OUTLET INSERT, 3-POLE

13 A, 250 V AC

In System Design. For Euro connectors (2.5 A), British standard connectors (13 A), Chinese connectors, 3-pole (10 A), Chinese connectors 2/3-pole without earthing contact(10 A).

It is not permitted to use these inserts in combination with French/Belgian earthing contact and connectors acccording to DIN 49441 (e.g. SCHUKO® connector). With child protection.

Type	Art. No.	PU	Mat.	Info
polar white	**2053 19**	10	TP	NEW

Items available on request.

UNIVERSAL SOCKET-OUTLET INSERT, 3-POLE

13 A, 250 V AC

In OCTOCOLOR design. For Euro connectors (2.5 A), British standard connectors (13 A), Chinese connectors, 3-pole (10 A), Chinese connectors 2/3-pole without earthing contact(10 A).

It is not permitted to use these inserts in combination with French/Belgian earthing contact and connectors acccording to DIN 49441 (e.g. SCHUKO® connector). With child protection.

Type	Art. No.	PU	Mat.	Info
polar white	**2056 19**	10	TP	NEW

Items available on request.

MULTI-CONTROL RELAY FOR SHUTTERS

MULTI-CONTROL RELAY FOR SHUTTERS REG

2A, 250 V AC

For mounting on DIN rails.

For control of up to 2 shutter motors locally, in groups or centrally. With separation of load and control circuit and positive lock-out in both directions.

The motors can be operated separately using a shutter switch, central control using shutter timer switches or shutter push-buttons of the Merten shutter control system.

Mains voltage: 230 V AC/ 50 Hz ±10%
Power consumption: 10 mA in relay operation
Switching voltage: max. 250 V AC
Switching output: max. 2 A
Temperature range: 0-60 °C
Terminals: max. 1.5 mm²
Device width: 2 modules = approx. 36 mm

Type	Art. No.	PU	Mat.	Info
	5763 97	1/40		NEW

RADIO SYSTEM

UNIVERAL RADIO TRANSMITTER, FLUSH-MOUNTED, 4-FOLD

Battery-powered radio transmitter for connection of four floating NO contacts, such as push-buttons or relay modules of the ARGUS smoke detector.

For the control of sensor covers with radio receiver Art.-No. 5931 .., 5932 .., 5930 .., 5933 .., shutter push-button with radio receiver Art.-No. 5936 .., 5935 .., plug adapter with radio receiver Art.-No. 5910 19, 5915 19, ARGUS 220 Connect or Timer Art.-No. 5654 .., 5656 .. (with integrated radio module Art.-No. 5654 95) or radio receiver, flush-mounted, 1-gang Art.-No. 5925 91.

The flush-mounted universal transmitter is suitable for mounting under push-button inserts or in empty flush-mounted -housing.

Channels: 4
Range: up to 100 m (free field)
up to 30 m (building)
Battery: 1 lithium button cell (CR 2032)
Display elements: LED for transmission confirmation

Type	Art. No.	PU	Mat.	Info
	5925 99	1/100		NEW

Contents: with battery.

RADIO RECEIVER, FLUSH-MOUNTED, 1-FOLD

For switching loads via a NO contact. Can be remotely controlled using radio transmitter Art.-No. 5907 22, 5941 .., 5942 .., 5921 .., 5922 .., 5925 99, movement detector ARGUS 220 Connect or Timer (with integrated radio module Art.-No. 5654 95).

The flush-mounted radio receiver can be installed in a ceiling box or flush-mounted box, as well as mounted on a ceiling hook.

Nominal voltage: 230 V AC
Nominal current: 10 A
Connected loads:
Filament lamps: 2000 W
Halogen lamps: 1200 W
Fluorescent lamps: 1200 W
Capacitive load: 35 µF
Radio functions: switch on, switch off, toggle, push-button operation
Display elements: LED

Type	Art. No.	PU	Mat.	Info
	5925 91	1/60		NEW

RADIO TEST SET

For testing a planned installation site of Merten radio components or for fault diagnosis in an already installed system.

Radio test transmitter:
Channels: 1, cyclic transmission
Range: up to 100 m (free field)
up to 30 m (building)
Battery: 1 lithium button cell (CR 2450N)
Energy-saving function through automatic disconnection
Display elements: LED for transmission confirmation

Radio test receiver:
Operating voltage: DC 9V
Battery: Block battery (alkali-manganese)
Energy-saving function through automatic disconnection
Display elements: LEDs for
- Availability
- Acknowledgement of receipt
- Signal strength

Type	Art. No.	PU	Mat.	Info
	5959 90	1/6		NEW

Contents: Radio test transmitter and test receiver, radio guideline, battery.

RADIO REPEATER

For signal amplification of all switching telegrams of the Merten radio system in the 868 MHz frequency range. Application of a repeater: transmission of radio signals over greater distances or in building complexes with high damping due to building materials.

Functions:

- Training of transmitters
- Deletion of transmitters (selective / complete)
- Transparent mode: Signal repetition of all received telegrams
- Selective mode: Signal repetition of trained transmitters (max. 32 transmitters)
- Smoke alarm circuit: Received smoke detector telegrams are converted into switching telegrams, e.g. to control lights or shutters. **Note**: The radio repeater cannot amplify smoke detector signals and thus activate other smoke detectors.

Suitable for surface mounting.

Power supply: 230 V AC, 50-60Hz
Control elements: Rotary coding switch
Display elements: 3 LED status indicators
Transmission output: 100 mW
Range: up to 500 m (free field)
up to 100 m (building)
Dimensions 110x95x40 mm (WxHxD)
Type of protection: IP 20

Type	Art. No.	PU	Mat.	Info
polar white	**5959 59**	1/16		NEW

FLUSH-MOUNTED INSTABUS RADIO GATEWAY

The radio gateway connects the INSTABUS EIB with the Merten radio system. Transmission is bi-directional. Smoke detectors with radio modules can be connected to the radio gateway using the radio repeater. For combination with blanking cover Art.-No. 6621 , 6622 .., 6620 ...

The gateway can be installed in a 60-mm flush-mounted box or in a surface-mounted box.

Power supply: Bus, 24 V DC, approx. < 10 mA
Channels: 25 (10 receiving blocks and 15 receiving/transmitting blocks)
Control elements: Function selector switch, channel selector switch, programming push-button
Display elements: LED function indicators, Programming LED
Radio frequency: 868 MHz
Transmission output: max. 10 mW
Range: up to 100 m (free field)
up to 30 m (building)
Dimensions 50x44x33 mm (WxHxD) without aerial and retaining ring
Type of protection: IP 20
Functions from EIB to radio: switching, toggling, dimming, shutters
Functions from radio to EIB: switching, toggling, dimming, shutters, edges, ARGUS

Type	Art. No.	PU	Mat.	Info
	6809 99	1/50		NEW

Contents: with bus terminal.

RADIO GUIDELINE

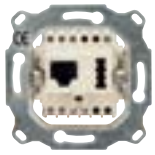
Useful information on radio technology and practical hints, e.g. information on locations, planning, installation, requirements. You can obtain your copy of the radio guideline at "www.merten.de" (download/brochures).

LINE 21

Simultaneous transmission of analogue telephony and Ethernet using one existing telephone line.

- **Technology**
- It is not necessary to install an additional line. The existing telephone box is simply replaced with a Line 21 junction box. This converts the telephone line (4-wire) into an extended network for two services - analogue telephony and PC networking.

- **Possible applications** are analogue telephony plus:
- networking of all PCs in the house or
- extension of a DSL line or
- connection of a digital video recorder in the network or
- connection of monitoring cameras with networking capability or
- shared use of printers



LINE 21 UAE/TAE COMBINATION BOX

For connection of an analogue telephone/telecommunications system (TAE) and a digital network device (UAE, 8-pole) such as a PC, hub, router, Merten switch Art.-No. 4657 11 or IC 1 Art.-No. 6950 .., 6951 ...

With integrated Line 21 technology.

For combination with central plate Art.-No. 2928 .., 2978 .., 2938 .., 2979 .. or intermediate ring Art.-No. 5171 .., 5160 .., 5181 .. or intermediate ring with hinged lid for telecommunications junction box Art.-Nr. 5174 .., 5182 ..

Line length: max. 50 m
Transmission rate: max. 100 Mbps
With 4 screw terminals for the installation line and 2 for the connection of additional telephone junction boxes.

Type	Art. No.	PU	Mat.	Info
white/8(6)-6F+N	**4657 09**	1/60	TP	NEW

Contents: without central plate.

LINE 21 UAE INSERT 8/8

For connection of an analogue telephone/telecommunications system (UAE, 8-pole) and a digital network device (UAE, 8-pole) such as a PC, hub, router, Merten switch Art.-No. 4657 11 or IC 1 Art.-No. 6950 .., 6951 ...

With integrated Line 21 technology.

For combination with central plate, Art. No. 2927 .. or 2920 .., 2926 .., 2980 ..

Line length: max. 50 m
Transmission rate: max. 100 Mbps
With 4 screw terminals for the installation line and 2 for analogue telephony.

Type	Art. No.	PU	Mat.	Info
white	**4657 08**	1/60	TP	NEW

Contents: without central plate.

LINE 21 PATCH PANEL REG, 6-GANG

Distribution panel for simple changing of plug cords without altering the wiring. For connection of analogue telephones/telecommunications systems and digital network devices (UAE, 8-pole) such as PCs, hubs, routers, Merten switch Art.-No. 4657 11 or IC 1 Art.-No. 6950 .., 6951 ...

With integrated Line 21 technology.

With six lockable RJ45 ports, LSA+ terminal blocks. For installation onto DIN rails EN 50022.

Line length: max. 50 m
Transmission rate: max. 100 Mbps (per installed line)
Type of protection: IP 20
Device width: 6 modules = 108 mm

With 2 LSA+ terminal blocks for the installation line and analogue telephony.

Type	Art. No.	PU	Mat.	Info
light grey	**4657 14**	1/16		NEW

LINE 21 UAE/TAE PATCH CABLE

Cable for connecting Line 21 UAE insert Art.-No. 4657 08 to analogue telephone/telecommunications systems.

Length: 35 cm

Type	Art. No.	PU	Mat.	Info
grey/black	**4657 13**	1/150		NEW

SWITCH REG, 5-GANG

For targeted distribution of data to individual devices. The switch supports a data transfer rate of up to 100 Mbps. With five lockable RJ45 ports and integrated power supply. For installation onto DIN rails EN 50022.

Power supply: 230 V AC
Category: CAT 5e
Display elements: LEDs for status display and service function for each port
Type of protection: IP 20
Device width: 6 modules = 108 mm

Type	Art. No.	PU	Mat.	Info
light grey	**4657 11**	1/15		

PATCH CABLE UAE/UAE

Cable for establishing a connection between the patch panel and the switch.

Length: 35 cm

Type	Art. No.	PU	Mat.	Info
grey	**4657 10**	10/150		

ARGUS SMOKE DETECTOR SYSTEM

- Battery-driven basic unit with integrated interface for functional extension with plug-in module.
- Radio-controlled module: wireless connection of several smoke detectors. The module works on the specially-reserved radio band of 868 MHz.
- Relay module: Control of external alarm sensor with own power supply (e.g. horns, warning lights or vibrating cushions for the deaf) as well as connection to INSTABUS EIB (e.g. speech module REG-K).
- The networking terminal in the smoke detector supports the hard-wired connection of up to 40 smoke detectors.
- Combination of hard-wired network and radio or relay module possible.
- If one of the detectors in the network detects smoke, the alarm is set off in all connected devices.
- A Merten smoke detector system already installed with integrated radio or relay modules (Art.-No. 6633 94, 6633 90, 6633 91) can be easily expanded with this smoke detector system.

ARGUS GLASS SMOKE DETECTOR

Battery-powered smoke detector for early detection of smouldering fires and open fires with smoke emission indoors. With integrated wiring terminal for networking of up to 40 smoke detectors.

The smoke detector operates according to the scattered light principle and therefore contains absolutely no radioactive materials. If light scattered with smoke particles gets into the measuring chamber, this is indicated by a loud warning signal (approx. 85 db(A)) and an LED. The smoke detector regularly carries out checks to ensure that it is in working order and this is indicated by the LED flashing briefly. The device indicates a low battery approx. every 45 seconds for a maximum of 30 days by emitting an acoustic signal. The LED also flashes in this case. With test button to check that the device is functioning correctly. Can be expanded with relay module Art.-No. 6634 90 (connection of external alarm sensors) or radio module Art.-No. 6634 91 (wireless networking).

Connection to INSTABUS EIB is implemented using integrated relay module Art.-No. 6634 90 and binary input, flush-mounted/4x10 Art.-No. 6398 98.

Functional principle: scattered light (Tyndall effect)
Sensitivity: according to ISO 12239
Operating voltage: DC, 9V
Battery type: block battery 6LR61 alkali-manganese
Battery failure signal: approx. every 45 seconds, max. 30 days
Signal: pulsating approx. 85 dB(A)
Indicator: red LED
Networking: max. 40 detectors
Networking cable: rigid, 2-wire, 0.12 to 0.5mm²
Ambient operating temperature: 0 °C to 50 °C
Dimensions: Ø110 mm, H = 55 mm
Type of protection: IP 42

With VdS certification

Type	Art. No.	PU	Mat.	Info
polar white	**6637 19**	1/12		NEW
aluminium	**6637 60**	1/12		NEW

Contents: with battery.

ARGUS PRESENCE

- Indoor presence detection
- ARGUS Presence detects the smallest of movements of e.g. persons seated in a room. ARGUS switches on the light and leaves it switched on until it can no longer detect the presence of people or there is sufficient natural daylight. Application areas are, e.g. offices, schools, public buildings or residential buildings. Installation is carried out in or on the ceiling.
- For installation on the ceiling in a 60 mm installation box. Optimum height 2.50 m.
- Using the surface-mounted box, Art.- No. 5506 19, the presence detector can also be mounted on ceilings that are not suspended.

ARGUS PRESENCE

The device has 2 relay outputs:

Relay 1:

For light-dependent movement detection, e.g. lighting. The overshoot time can be set within a range of 10 seconds to 30 minutes. ARGUS Presence constantly checks the brightness in a room and if it detects sufficient natural daylight, the device switches off the lighting even if people are present.

Relay 2:

For light-independent movement detection, e.g. control of alarm, ventilation or heating. The overshoot time is infinitely adjustable between 5 minutes and 2 hours. This output has enhanced protection against false alarms.

Nominal voltage: 230 V AC ±10%, 50 Hz

Relay 1 (sole use):
Nominal output: max. 1000 W/VA,
5 A, cosφ = 1
5 A, cosφ = 0.6
Filament lamps: 1000 W
230 V halogen: 1000 W
LV halogen: 500 W with conventional transformer
Capacitive load: 5 A, 140 µF
Fluorescent lamps: 5 A, 140 µF
1000 W, not compensated;
1000 W, 140 µF parallel-compensated;
2x500 W, twin-lamp circuit;
ECG: 5 A, Cmax ≤140 µF
Minimum load: 10 mA, ≥ 24 V DC

Relay 2 (sole use):
Nominal output: max. 1000 W, cosφ = 1
Relays 1+2 (combined use):
Nominal output: max. 1000 VA cosφ = 0.6 and max. 750 W halogen 230 V
Fuse: T5H
Power consumption: < 1 W
Sensing angle: 360°
Range: a radius of max. 7 m from place of installation (at a mounting height of 2.50 m).
Number of detection levels:6
Number of detection zones:136 with 544 switching segments
Light sensors: infinitely adjustable from approx. 10 to 1000 Lux. The light sensor is not active in the test position.
EC Directives: Low-voltage Directives 73/23/EEC and EMC Directive 89/336/EEC.

Type	Art. No.	PU	Mat.	Info
polar white	**5505 90**	1/6		NEW

Successor to ARGUS Presence Art.-No. 5505 19.

ARGUS PRESENCE WITH IR RECEIVER AND FOR THE OPERATION OF EXTENSION SET

During application of the nominal voltage or short-term interruption of the power supply (e.g. with a push-button connected as NC contact), the device switches channel 1 on for one minute plus the set time, regardless of the level of light. For channel 1, the functions "Permanently ON", "Permanently OFF" and "Automatic" can be remotely operated using Distance Art.-Nr. 5702 22, 5707 22.

Other features and characteristics identical to ARGUS Presence (Art.-No. 5505 90).

Type	Art. No.	PU	Mat.	Info
polar white	**5505 91**	1/6		NEW

Successor to ARGUS Presence for operation of extension set Art.-No. 5505 99.

INSTABUS ARGUS PRESENCE

INSTABUS ARGUS PRESENCE

The INSTABUS ARGUS Presence detects small movements in a room and sends data telegrams via INSTABUS EIB. With integrated bus coupling unit.

Sensing angle: 360°
Range: a radius of max. 7 m from place of installation (at a mounting height of 2.50 m).
Number of detection levels:6
Number of detection zones:136 with 544 switching segments
Light sensor: infinitely adjustable from approx. 10 to 1000 Lux using the ETS
EC Directives: Low-voltage Directives 73/23/EEC and EMC Directive 89/336/EEC.

In the case of brightness-related movement detection for light control, the device constantly determines the brightness of the light in the room. If there is sufficient natural light, the device deactivates the actuator for the artificial light even if there is still someone in the room. The overshoot time can be adjusted using the ETS.

Depending on the application:

Movement detection can trigger up to three functions simultaneously (1xpresence function). Dynamic overshoot time, which is determined depending on the use of the room. Connection of large systems possible (master-slave).

Type	Art. No.	PU	Mat.	Info
polar white	**6305 90**	1/6		NEW

Successor to INSTABUS ARGUS Presence Art.-No. 6305 99.

Contents: with bus terminal and mounting plate

INSTABUS ARGUS PRESENCE WITH IR-RECEIVER

Indoor presence detection

As for INSTABUS ARGUS Presence Art.-No. 6305 90.

Can be remotely controlled with Distance Art.-No. 5702 22, 5707 22.

The infrared commands are converted into corresponding data telegrams. Max. 10 channels can be controlled. With integrated bus coupling unit.

Sensing angle: 360°
Range: a radius of max. 7 m from place of installation (at a mounting height of 2.50 m).
Number of detection levels:6
Number of detection zones:136 with 544 switching segments
Light sensor: infinitely adjustable from approx. 10 to 1000 Lux using the ETS
EC Directives: Low-voltage Directives 73/23/EEC and EMC Directive 89/336/EEC.

In the case of brightness-related movement detection for light control, the device constantly determines the brightness of the light in the room. If there is sufficient natural light, the device deactivates the actuator for the artificial light even if there is still someone in the room. The overshoot time can be adjusted using the ETS.

Type	Art. No.	PU	Mat.	Info
polar white	**6305 91**	1/6		NEW

Successor to INSTABUS ARGUS Presence with IR-receiver Art.-No. 6305 19.

Contents: with bus terminal and mounting plate

INSTABUS ARGUS PRESENCE WITH CONSTANT LIGHT CONTROL

Indoor presence detection

As for INSTABUS ARGUS Presence Art.-No. 6305 90.

An integrated brightness sensor enables constant light control, depending on the presence of a person in the room. With integrated bus coupling unit.

Sensing angle: 360°
Range: a radius of max. 7 m from place of installation (at a mounting height of 2.50 m).
Number of detection levels:6
Number of detection zones:136 with 544 switching segments
Light sensor: infinitely adjustable from approx. 10 to 1000 Lux using the ETS
EC Directives: Low-voltage Directives 73/23/EEC and EMC Directive 89/336/EEC.

In the case of brightness-related movement detection for the light control, the device constantly determines the brightness of the light in the room. If there is sufficient natural light, the device deactivates the actuator for the artificial light even if there is still someone in the room. The overshoot time can be adjusted using the ETS.

Type	Art. No.	PU	Mat.	Info
polar white	**6305 92**	1/6		NEW

Successor to INSTABUS ARGUS Presence with constant light control Art.-No. 6305 98.

Contents: with bus terminal and mounting plate

INSTABUS ARGUS MOVEMENT DETECTOR

INSTABUS ARGUS 220 CONNECT

INSTABUS movement detector for outdoor areas.

220° area surveillance for large house fronts. 360° short-range zone over a radius of approx. 4 m.

Potentiometers are located underneath the cover plate for setting functions. With integrated bus coupling unit. A programming magnet (e.g. Art.-No. 6391 90) is required for programming the physical addresses.

Very easy installation thanks to large wiring compartment and connector system. Looping possible. Can be installed on walls and ceilings without additional accessories. Can be mounted on outdoor/ indoor corners and downpipes using mounting bracket Art.-No. 5652 ... The detection range can be adapted to the prevailing conditions with the aid of the spherical head which can be adjusted in the horizontal, vertical and axial direction. The design is independent of the position of the sensor head. It is possible to hide individual lens areas.

Sensing angle: 220°
Range: max. 16 m
Number of detection levels:7
Number of detection zones:112 with 448 switching segments
Light sensors: infinitely adjustable from 3-1000 lux
Time: adjustable from outside 1 sec. to approx. 8 min. in 6 stages or via ETS from approx. 3 sec. to approx. 152 hours.
Sensitivity: infinitely adjustable
Adjustment options for sensor head
Wall mounting: 9° up, 24° down, 12° right/left, ±12° axial
Ceiling mounting: 4° up, 29° down, 25° right/left, ±8.5° axial
EC Directives: EMC Directive 89/336/EEC
IP 55 Type of protection: IP 55

Type	Art. No.	PU	Mat.	Info
polar white	**6315 19**	1/12		NEW
dark brazil	**6315 15**	1/6		NEW
aluminium	**6315 69**	1/6		NEW

Contents: with cover plate and segments for restriction of detection range, screws and dowels.

Available in 2nd quarter 2004

INSTABUS MULTI-FUNCTION PUSH-BUTTON WITH ROOM TEMPERATURE CONTROL UNIT

PLANTEC MULTI-FUNCTION PUSH-BUTTON WITH ROOM TEMPERATURE CONTROL UNIT

User-friendly control unit with room thermostat. Application module with 6 function buttons and 2 push-buttons for display functions. For plugging onto flush-mounted bus coupling unit 2 Art.-No. 6902 99. With IR receiver and programmable status LEDs next to the operating buttons. The buttons can be programmed either individually or as a pair. All functions of the relevant button can be controlled by means of the Distance IR remote control.

The room temperature control unit can be used for heating and cooling with infinitely adjustable INSTABUS actuators or for controlling switch actuators. With white backlit display for showing important information. Menu for setting standard operating modes, setpoint, working/non-working day, display mode, time, switching times and brightness.

Functions of the multi-function push-button

Switching, toggling, dimming, shutters (relative or absolute), edges trigger 1, 2 or 8-bit telegrams (distinction between short/long operation), edges with 2-byte telegrams (distinction between short/long operation), 8-bit linear regulator, locking functions, scene functions, time control and alarm functions.

Functions of the room temperature control unit

Type of thermostat

2-step controller, continuous-action PI controller, switching PI controller (PWM)

Output:

Continuous in the range 0.. 100% or switching ON/OFF

Controller mode:

- Heating with one controller output
- Cooling with one controller output
- Heating and cooling with separate controller outputs
- 2-step heating with 2 controller outputs
- 2-step cooling with 2 controller outputs

Operating modes:

Comfort, standby, night economy, frost/heat protection

Operation: Menu

Control elements: 6 function buttons, 2 menu buttons

Indicators: status LEDs

Dimensions: 101x115x23 mm (HxWxD)

Suitable for surface mounting. Accessories: Protection against dismantling of surface-mounted devices Art.-No. 6230 90, labelling sheets Art.-No. 6230 91.

The labelling software Art.-No. 6150 22 is available for individual labelling.

Type	Art. No.	PU	Mat.	Info
aluminium	**6260 08**	1/6	M	NEW

Available in 4th quarter 2004

MULTI-FUNCTION PUSH-BUTTON, 2-FOLD WITH ROOM TEMPERATURE CONTROL UNIT

Application module in System M design. For plugging onto flush-mounted bus coupling unit 2 Art.-No. 6902 99. Programmable status LEDs next to the operating buttons. The buttons can be programmed either individually or as a pair.

The room temperature control unit can be used for heating and cooling with infinitely adjustable INSTABUS actuators or for controlling switch actuators. With white backlit display for showing important information. Menu for setting standard operating modes, setpoint, working/non-working day, display mode, time, switching times and brightness.

Functions of the multi-function push-button

Switching, toggling, dimming, shutters (relative or absolute), edges trigger 1, 2 or 8-bit telegrams (distinction between short/long operation), edges with 2-byte telegrams (distinction between short/long operation), 8-bit linear regulator, locking functions, scene functions, time control and alarm functions.

Functions of the room temperature control unit

Type of thermostat

2-step controller, continuous-action PI controller, switching PI controller (PWM)

Output:

Continuous in the range 0.. 100% or switching ON/OFF

Controller mode:

- Heating with one controller output
- Cooling with one controller output
- Heating and cooling with separate controller outputs
- 2-step heating with 2 controller outputs
- 2-step cooling with 2 controller outputs

Operating modes:

Comfort, standby, night economy, frost/heat protection

Operation: Menu

The labelling software Art.-No. 6150 22 is available for individual labelling. If you already have the labelling software, you can download the form for the multi-function push-button at www.merten.de. Use commercially available labelling sheets (max. 0.15 mm thickness) for labelling.

Type	Art. No.	PU	Mat.	Info
white	**6232 44**	1/17	TP	NEW
polar white	**6232 19**	1/17	TP	NEW
anthracite	**6232 14**	1/17	TP	NEW
aluminium	**6232 60**	1/17	ML	NEW

Contents: Screw for protection against dismantling.

MULTI-FUNCTION PUSH-BUTTON, 4-FOLD WITH ROOM TEMPERATURE CONTROL UNIT

Application module in System M design. For plugging onto flush-mounted bus coupling unit 2 Art.-No. 6902 99. For combination with frame, 2-gang without central bridge piece, in M-PLAN design Art.-No. 5873 ... With IR receiver and programmable status LEDs next to the operating buttons. The buttons can be programmed either individually or as a pair. All functions of the relevant button can be controlled by means of the Distance IR remote control.

The room temperature control unit can be used for heating and cooling with infinitely adjustable INSTABUS actuators or for controlling switch actuators. With white backlit display for showing important information. Menu for setting standard operating modes, setpoint, working/non-working day, display mode, time, switching times and brightness. With piezo buzzer for indicating alarm states.

Functions of the multi-function push-button

Switching, toggling, dimming, shutters (relative or absolute), edges trigger 1, 2 or 8-bit telegrams (distinction between short/long operation), edges with 2-byte telegrams (distinction between short/long operation), 8-bit linear regulator, locking functions, scene functions, time control and alarm functions.

Functions of the room temperature control unit

Type of thermostat

2-step controller, continuous-action PI controller, switching PI controller (PWM)

Output:

Continuous in the range 0.. 100% or switching ON/OFF

Controller mode:

- Heating with one controller output
- Cooling with one controller output
- Heating and cooling with separate controller outputs
- 2-step heating with 2 controller outputs
- 2-step cooling with 2 controller outputs

Operating modes:

Comfort, standby, night economy, frost/heat protection

Operation: Menu

The labelling software Art.-No. 6150 22 is available for individual labelling. If you already have the labelling software, you can download the form for the multi-function push-button at www.merten.de. Use commercially available labelling sheets (max. 0.15 mm thickness) for labelling.

Type	Art. No.	PU	Mat.	Info
white	**6236 44**	1/17	TP	NEW
polar white	**6236 19**	1/17	TP	NEW
anthracite	**6236 14**	1/17	TP	NEW
aluminium	**6236 60**	1/17	ML	NEW

Contents: Screw for protection against dismantling, velcro sticker, inserts for covering the IR receiver.

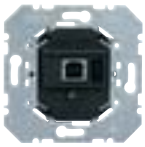
FRAME, 2-GANG WITHOUT CENTRAL BRIDGE PIECE

In M-PLAN design. For vertical and horizontal assembly. Special frame for orientation sign Art.-No. 5871 .., 5872 .., multi-function push-button, 4-fold with room temperature control unit Art.-No. 6236 ... or shaver socket insert Art.-No. 2131 00.

Dimensions: 85.8 x 159 mm (HxW)

Type	Art. No.	PU	Mat.	Info
white	**5873 44**	2/96	TP	NEW
polar white	**5873 19**	2/96	TP	NEW
anthracite	**5873 14**	2/96	TP	NEW
aluminium	**5873 60**	2/96	ML	NEW

INSTABUS SYSTEM COMPONENTS / ACTUATORS / GATEWAYS



FLUSH-MOUNTED USB INTERFACE

For connection of a programming or diagnostic device with USB1.1 or USB2 interface to the INSTABUS EIB.

For combination with central plates for telecommunications junction box TAE Art.-No. 2979 .., 2978 .., 2928 .., 2938 ...

To be screwed onto the 60 mm installation box. With integrated bus coupling unit. The device is connected to the bus via a bus terminal. Compatible with ETS 3.

Mounting depth: 20 mm

Type	Art. No.	PU	Mat.	Info
	6817 99	1/50		NEW

Contents: with bus terminal.

Available in 3rd quarter 2004

USB INTERFACE REG-K

For connection of a programming or diagnostic device with USB1.1 or USB2 interface to INSTABUS EIB. For installation onto DIN rails to EN 50022. Bus connection is via a bus terminal, a data rail is not necessary. With integrated bus coupling unit.

Device width: 2 modules = approx. 36 mm

Type	Art. No.	PU	Mat.	Info
light grey	**6818 29**	1/70		NEW

Contents: with bus terminal and cable cover.

Available in 3rd quarter 2004

COUPLER REG-K

For logical connection and electrical isolation between lines and areas. For mounting on DIN rails EN50022. Bus connection is via bus terminals, a data rail is not necessary. Contacting of primary and secondary lines via bus terminal.

Device width: 2 modules = approx. 36 mm

Type	Art. No.	PU	Mat.	Info
light grey	**6802 03**	1/70		NEW

Contents: with bus terminals.

INSTABUS DALI GATEWAY REG-K

The DALI gateway connects INSTABUS EIB to digital ECGs that are fitted with a DALI interface. The gateway is DALI master and the power supply for the ECGs. It supports the switching and dimming of up to 64 ECGs in 16 groups and the control of 16 lightscenes. Brightness values or error messages of the DALI devices can be sent to the EIB and visualised on display devices. Commissioning and configuration of the DALI is executed via the integrated display and the operating buttons. These also permit the user to change group assignments and scene settings at any time without software.

With 2 inputs, e.g. for connection of push-buttons. For installation onto DIN rails to EN 50022. Bus connection is via a bus terminal, a data rail is not necessary. Network and DALI cables as well as switching inputs can be connected using screw terminals on the device.

Power supply:	110-240 V AC, 50-60 Hz
Inputs:	2, passive 9-36 V DC or 9-24 V AC
Outputs:	DALI D+, D- according to DALI specification 16-18 V DC, 150 mA, short-circuit-proof
Connecting cable:	1.5 - 2.5 mm²
Type of protection:	IP 20
Device width:	6 modules = approx. 108 mm

Type	Art. No.	PU	Mat.	Info
	6801 29	1/20		NEW

Contents: with bus terminal.

Available in 3rd quarter 2004

FLUSH-MOUNTED INSTABUS RADIO GATEWAY

The radio gateway connects the INSTABUS EIB with the Merten radio system. Transmission is bi-directional. Smoke detectors with radio modules can be connected to the radio gateway using the radio repeater. For combination with blanking cover Art.-No. 6621 , 6622 .., 6620 ...

The gateway can be installed in a 60 mm flush-mounted box or in a surface-mounted box.

Power supply:	bus, 24 V DC approx. < 15 mA
Channels:	25 (10 receiving blocks and 15 receiving/transmitting blocks)
Control elements:	Rotary coding switch, channel selector switch, transmitter button
Display elements:	LED function indicators, programming LED
Radio frequency:	868 MHz
Range:	up to 100 m (free field) up to 30 m (building)
Dimensions	50x44x33 mm (WxHxD)
Type of protection:	IP 20

Functions: switching, toggling, dimming, shutters, edges

Type	Art. No.	PU	Mat.	Info
	6809 99	1/50		NEW

Contents: with bus terminal.

SHUTTER/SWITCH ACTUATOR REG-K/ 8X/16X/10 WITH MANUAL MODE

For independent control of up to 8 shutter/blind drives or for switching up to 16 loads via NO contacts. The function of the shutter/switching channels can be freely configured. All shutter/switch outputs can be manually operated with push-buttons.

With integrated bus coupling unit. For mounting on DIN rails to EN50022. Bus connection is via bus terminals, a data rail is not necessary. Display of the channel states via LEDs. A green LED indicates readiness for operation.

Nominal voltage:	230 V AC
Shutter per switching contact:	
Nominal current:	10 A, cosφ = 0.6
Nominal output:	max. 2300 VA
Switching per switching contact:	
Nominal current:	10 A, cosφ = 0.6
Nominal output:	max. 2300 VA
Capacitive load:	230 V AC, max. 100 µF
Device width:	8 modules = approx. 144 mm

The following can be programmed for the shutters:

- operating time, pause, step interval
- differentiated locking function for weather alarms
- 8-bit positioning for height and slats

The following can be programmed for switching:

- Cut-off warning for staircase lighting function
- Programmable response when downloading
- Central function
- Comprehensive parameterisation for bus voltage failure and recovery
- Locking and additional logic operation or positively driven operation
- operation as NC contact, NO contact and changeover contact
- Staircase lighting function with/without manual OFF function
- Feedback function for each channel
- Delay functions for each channel

Type	Art. No.	PU	Mat.	Info
light grey	**6489 29**	1/6		NEW

Contents: with bus terminal and cable cover.

Available in 4th quarter 2004

SWITCH ACTUATOR REG-K/8X230/16 WITH MANUAL MODE

For independent switching of 8 loads via NO contacts. All 230 V switch outputs can be operated via manual switches. With integrated bus coupling unit. Mains connection is via screw terminals, whereby the L-connections are internally bridged in pairs. For installation onto DIN rails EN 50022. Bus connection is via a bus terminal, a data rail is not necessary. Readiness for operation is indicated by a green LED after the application has been loaded.

Nominal voltage: 230 V AC
Per switching contact:
Nominal current: 16 A, cosφ = 0.6
Filament lamps: 230 V AC, max. 3600 W
Halogen lamps: 230 V AC, max. 2500 W
Fluorescent lamps: 230 V AC, max. 2500 VA
Capacitive load: 230 V AC, 16 A, max. 200 µF
Device width: 8 modules = approx. 144 mm

The following can be programmed:
- Scenes
- Cut-off warning for staircase lighting function
- Programmable response when downloading
- Central function
- Comprehensive parameterisation for bus voltage failure and recovery
- Locking and additional logic operation or positively driven operation
- Operation as NC contact or NO contact
- Staircase lighting function with/without manual OFF function
- Feedback function for each channel
- Delay functions for each channel

Type	Art. No.	PU	Mat.	Info
light grey	**6478 93**	1/6		NEW

Contents: with bus terminal and cable cover.

SWITCH ACTUATOR REG-K/12X230/16 WITH MANUAL MODE

For independent switching of 12 loads via NO contacts. All 230 V switch outputs can be operated via manual switches. With integrated bus coupling unit. Mains connection is via screw terminals, whereby the L-connections are internally bridged in pairs. For installation onto DIN rails EN 50022. Bus connection is via a bus terminal, a data rail is not necessary. Readiness for operation is indicated by a green LED after the application has been loaded.

Nominal voltage: 230 V AC
Per switching contact:
Nominal current: 16 A, cosφ = 0.6
Filament lamps: 230 V AC, max. 3600 W
Halogen lamps: 230 V AC, max. 2500 W
Fluorescent lamps: 230 V AC, max. 2500 VA
Capacitive load: 230 V AC, 16 A, max. 200 µF
Device width: 12 modules = approx. 216 mm

The following can be programmed:
- Scenes
- Cut-off warning for staircase lighting function
- Programmable response when downloading
- Central function
- Comprehensive parameterisation for bus voltage failure and recovery
- Locking and additional logic operation or positively driven operation
- Operation as NC contact or NO contact
- Staircase lighting function with/without manual OFF function
- Feedback function for each channel
- Delay functions for each channel

Type	Art. No.	PU	Mat.	Info
light grey	**6484 93**	1/6		NEW

Contents: with bus terminal and cable cover.

SHUTTER ACTUATOR REG-K/4X(1X24)/6 WITH MANUAL MODE

For the independent control of four shutter/blind drives. With manual switches for central continuous operation and stop. With integrated bus coupling unit and plug-in screw terminals. For mounting on DIN rails to EN50022. Bus connection is via bus terminals, a data rail is not necessary.

Per switching contact:
Nominal voltage: 24 V DC ±10%
Nominal current: 6 A
Load types: 24 V DC drives
Device width: 4 modules = approx. 72 mm
The following can be programmed:
operating time, slat adjustment, pause, behaviour after bus voltage failure, safety functions, (e.g. wind alarm), ventilation flap operation.

Type	Art. No.	PU	Mat.	Info
light grey	**6487 29**	1/24		NEW

Contents: with bus terminal and cable cover.

SHUTTER ACTUATOR REG-K/4X(1X24)/6 WITH MANUAL MODE

For the independent control of four shutter drives. With integrated bus coupling unit and plug-in screw terminals. For mounting on DIN rails to EN50022. Bus connection is via bus terminals, a data rail is not necessary. Each actuator channel has two channel buttons with which the outputs can be switched manually irrespective of the input objects. Display of channel status via the backlit channel buttons. A green LED indicates readiness for operation.

Per switching contact:

Nominal voltage: 230 V AC
Nominal current: 6 A, cosφ = 0.6
Motor load: 230 V AC, max. 1000 W
Device width: 4 modules = approx. 72 mm

The following can be programmed: operating time, pause, safety function, 1-bit positioning and behaviour after bus voltage recovery per actuator channel.

Type	Art. No.	PU	Mat.	Info
light grey	**6488 90**	1/30		NEW

Contents: with bus terminal and cable cover.

Available in May 2004

UNIVERSAL DIMMER ACTUATOR REG-K/230/500 W

For the switching and dimming of filament lamps, HV halogen lamps and LV halogen lamps via dimmable wound or electronic transformers.

(leading and trailing-edge phases)

The dimmer actuator automatically recognises the connected load. Do not connect any mixed loads.

With integrated bus coupling unit, screw terminals, protection against short-circuit and excess temperature (automatic restart after cooling down), soft start. For mounting on DIN rails to EN50022. Bus connection is via bus terminals, a data rail is not necessary.

Mains voltage: 230 V AC
Nominal output: max. 500 W / VA
50 W / VA minimum load
Power loss: 4.5 W
Device width: 4 modules = approx. 72 mm

The following can be programmed:

starting behaviour, dimming behaviour, soft ON, soft OFF, time dimmer, dimming and triggering of brightness values, delayed switching off when the brightness falls below the cut-out value, lightscenes, (retrieval of up to 8 internally stored brightness levels), disable mode with defined brightness values at the beginning and end, status feedback, behaviour after bus voltage recovery.

Type	Art. No.	PU	Mat.	Info
light grey	**6491 29**	1/22		NEW

Contents: with bus terminal and cable cover.

Available in 2nd quarter 2004

UNIVERSAL DIMMER ACTUATOR REG-K/2X230/300 W

For the switching and dimming of filament lamps, HV halogen lamps and LV halogen lamps via dimmable wound or electronic transformers.

(leading and trailing-edge phases)

Different types of loads can be operated independently of one another at both outputs. The dimmer actuator automatically recognises the connected load. Do not connect any mixed loads.

With integrated bus coupling unit, screw terminals, protection against short-circuit and excess temperature (automatic restart after cooling down), soft start. For mounting on DIN rails to EN50022. Bus connection is via bus terminals, a data rail is not necessary.

Mains voltage: 230 V AC
Nominal output per channel: max. 300 W / VA
50 W / VA minimum load
Power loss: 4.5 W
Device width: 4 modules = approx. 72 mm

The following can be programmed:

starting behaviour, dimming behaviour, soft ON, soft OFF, time dimmer, dimming and triggering of brightness values, delayed switching off when the brightness falls below the cut-out value, lightscenes, (retrieval of up to 8 internally stored brightness levels), disable mode with defined brightness values at the beginning and end, status feedback, behaviour after bus voltage recovery.

Type	Art. No.	PU	Mat.	Info
light grey	**6490 29**	1/22		NEW

Contents: with bus terminal and cable cover.

Available in 2nd quarter 2004

CONTROL UNIT 1-10 V REG-K/3-GANG WITH MANUAL MODE

For the connection of devices with 1-10 V interfaces to INSTABUS EIB. With integrated bus coupling unit. The 230 V switch outputs can be operated via manual switches. For mounting on DIN rails to EN50022. Bus connection is via bus terminals, a data rail is not necessary.

Switching contact: Switching of ECGs/transformers
Switching output: 2500 A, cosφ = 1
Capacitive load: 1100 W, 140 µF

1-10V interface: Dimming of ECGs/transformers
Voltage range: 1-10 V DC
Output current: max. 100 mA per channel
Input cable: max. 500 m with 0.5 mm²
Device width: 4 modules = approx. 72 mm

The following can be programmed:

starting behaviour, dimming behaviour, soft ON, soft OFF, time dimmer, dimming and triggering of brightness values, delayed switching off when the brightness falls below the cut-out value, lightscenes, (retrieval of up to 8 internally stored brightness levels), disable mode with defined brightness values at the beginning and end, status feedback, behaviour after bus voltage recovery.

Type	Art. No.	PU	Mat.	Info
light grey	**6469 29**	1/24		NEW

Contents: with bus terminal.

Available in 4th quarter 2004

INSTABUS EIB - MERTEN@HOME

IC 1 EIB INTERNET CONTROLLER REG-K

Monitoring and control of systems and buildings via the Internet. Internet connection for Art. No.

- 6951 01 via the LAN/Ethernet interface
- 6951 02 via the integrated analogue modem (56Kbps)
- 6951 03 via the integrated ISDN modem (64Kbps)
- 6951 04 via the integrated GSM modem

With LAN/Ethernet interface for networking up to 32 additional IC 1 devices. Commissioning via the Internet, Ethernet or PC.

With integrated bus coupling unit. For mounting on DIN rails to EN50022, a data rail is not necessary. For combination with power supply 24 V DC REG-K Art.-No. 6930 01 or INSTABUS power supply Art.-No. 6837 29, Art.-No. 6838 29 (via free output).

The power supply 320 REG-K with battery connection Art.-No. 6831 29 and the lead-gel battery Art.-No. 6689 90 can be connected for buffering the bus voltage. Connection for USB video adapter REG-K Art.-No. 6681 01.

Power consumption:	5 W
Power supply:	12-30 V DC
EIB objects:	256
Interfaces:	2xUSB for video adapter 1xRJ45 Ethernet 10/100Mbps
Art. No. 6951 02:	1xRJ45 analogue modem, 56Kbps
Art. No. 6951 02:	1xRJ45 analogue modem, 56Kbps
Art. No. 6951 04:	1xRJ45 GSM/GPRS with aerial socket
Video images:	320x240 up to max. 640x480
Video memory:	max. 128 images
Historical memory:	128,000 datapoints/channel
Annual timer:	with 32 programs, DCF77 synchronised via Domoport
Macros:	max. 16 parallel macros, 32 internal programmable variables, logic, mathematical, comparative and temporal function modules.
Device width:	9 modules = 162 mm

Type	Art. No.	PU	Mat.	Info
without modem	**6951 01**	1/3		
Analogue	**6951 02**	1/3		
ISDN	**6951 03**	1/3		
GSM/GPRS	**6951 04**	1/3		

Contents: User manual on CD, login data for Domoport, 3 m cable each for network, Crosslink and telephone respectively, magnetic foot antenna with connecting cable (Art.No. 6951 04).

The devices are available with the new user interface "Merten@Home" in the 4th quarter 2004.

INSTABUS FAN COIL CONTROLLER AND OPERATING PANELS

FAN COIL CONTROLLER REG-K

For heating, ventilation and air conditioning control. For the control of convector fans with up to three speed levels as well as the control of three-step motor drives (continuous/pulse-width modulated) or two-step thermal drives. Alternatively, the actuators can also be controlled via EIB. The actuators are powered through the fan coil controller

For installation onto DIN rails to EN 50022. Bus connection is via a bus terminal, a data rail is not necessary.

Connection for temperature sensor Art.-No. 6450 91 for recording the actual temperature and variable potentiometer for setpoint displacement.

Two floating binary inputs for window contact and filling level contact for condensation overflow container. Connection of 1 to 3-step fans. The unused fan switching outputs can also be used as switch actuator channels.

The fan coil controller can be controlled using flush-mounted room operator panels Art.-No. 6250 19, 6244 19, the multi-function push-button with room thermostat Art.-No. 6232 .., 6236 .., 6260 08 or a variable potentiometer.

Functions of the fan control

In automatic mode, the fan steps are activated depending on the manipulated variables of the controller. The three fan steps and automatic mode can be switched via EIB telegram. The fan can be controlled either via actuators or suitable dimmer actuators.

Functions of the valve control

Type of controller: PI controller (pulse-width modulated and continuous)

Controller mode: Heating and/or cooling with shared or separate controller outputs

Operating modes: Comfort, comfort extension, standby, night economy, frost/heat protection

Power supply:	integrated power supply unit 230 V AC ±10%, 50/60 Hz
Power consumption:	5 VA
Outputs:	3 floating contacts (fan coil), 2 semiconductor switches (valve connections),
Inputs:	2 for signalling contacts, 1 for temperature sensor
Bus connection:	EIB terminal
Device width:	6 modules = approx. 108 mm

The fan coil controller can also be operated without EIB connection.

Type	Art. No.	PU	Mat.	Info
light grey	**6450 29**	1/18		NEW

FLUSH-MOUNTED ROOM OPERATOR PANEL

Application module in System M design for controlling the fan coil controller REG-K Art.-No. 6450 29. For plugging onto the flush-mounted bus coupling unit 2 Art.-No. 6902 99. With presence push-button (toggling between standby/comfort), push-button for controlling fan steps 1 to 3 and automatic mode and a rotary button for setpoint adjustment. Status indicators for comfort/standby, fan automatic mode and for heating/cooling mode.

Type	Art. No.	PU	Mat.	Info
polar white	**6250 19**	1/12		NEW

FLUSH-MOUNTED ROOM OPERATOR PANEL

Application module in System Design design for controlling the fan coil controller REG-K Art.-No. 6450 29. For plugging onto the flush-mounted bus coupling unit 2 Art.-No. 6902 99. With presence push-button (toggling between standby/comfort), push-button for controlling fan steps 1 to 3 and automatic mode and a rotary button for setpoint adjustment. Status indicators for comfort/standby, fan automatic mode and for heating/cooling mode.

Type	Art. No.	PU	Mat.	Info
polar white	**6244 19**	1/12		NEW

TEMPERATURE SENSOR

The sensor for recording the temperature is connected to the fan coil controller REG-K Art.-No. 6450 29.
Cable length: max. 30 m

Type	Art. No.	PU	Mat.	Info
	6450 91	1/100		NEW

Contents: with 2 m connecting cable and connector.

INSTABUS EIB EASY

DATABASE FOR EIB EASY

Contains all applications of the Easy devices for importing and programming in the ETS.

The **database for EIB Easy** is available on the Internet or on the Merten Info CD.

EASY SHUTTER BASE UNIT REG-K

Commissioning device for configuring the EIB Easy System. With LCD and operator buttons

Contains a power supply for generating bus voltage for a line with up to 64 bus devices. The base unit has a 4-gang shutter actuator for the independent switching of four shutter/blind drives. Two positions are supported by each channel. With integrated 4-channel timer. Scene function for 4 channels.

With integrated bus coupling unit and plug-in screw terminals. For mounting on DIN rails to EN50022. Bus connection is via bus terminals, a data rail is not necessary.

Power supply:
Mains voltage: 230 V AC, 50-60 Hz
Output voltage: 30 V DC ± 2 V
Output current: max. 320 mA, short-circuit-proof

4-fold shutter actuator, per output:
Nominal voltage: 230 V AC
Nominal current: 6 A, cosφ = 0.6
Motor load: 230 V AC, max. 1000 W
Device width: 12 modules = approx. 216 mm

Type	Art. No.	PU	Mat.	Info
light grey	**7902 29**	1/2		NEW

English version available on request

Contents: with bus terminal, cable cover and Easy protection card

EASY BINARY INPUT, FLUSH-MOUNTED/4X10

For connection of four conventional push-buttons or floating contacts to EIB Easy. Internally generates a signal voltage SELV, electrically isolated from the bus. With integrated bus coupling unit 2.

Installation in an installation box, 40 mm deep.

Inputs: 4
Contact voltage: max. 10 V, clocked
Contact current: max. approx. 2 mA, pulsating
Cable length: max. 50 m, bus connecting cable or bell wire (Y, J-FY, YR)
Dimensions: 48x44x33 mm (HxWxD)

Functions: Push-buttons, edges, dimming, shutters, scenes, staircase lighting function.

Type	Art. No.	PU	Mat.	Info
	7630 98	1/50		NEW

Contents: with bus terminal.

EASY BINARY INPUT REG-K/4X10

For connection of four conventional push-buttons or floating contacts to EIB Easy. Specially for connection of devices such as rain sensors, wind sensors Art.-No. 5806 92, Art-No. 5806 90 or dimmer switch Art.-No. 5448 29. Internally generates a signal voltage SELV, electrically isolated from the bus. With integrated bus coupling unit 2.

For mounting on DIN rails to EN50022. Bus connection is via bus terminals, a data rail is not necessary.

Inputs: 4
Contact voltage: max. 10 V, clocked
Contact current: max. approx. 2 mA, pulsating
Cable length: max. 50 m
Device width: 2.5 modules = approx. 45 mm
Functions:

Two channels specially configured for wind/rain alarm.

Two channels can be selected with edges, transmission of brightness, shutter operation (1-fold and 2-fold), staircase lighting function, positively driven operation, scene control.

Type	Art. No.	PU	Mat.	Info
light grey	**7730 29**	1/30		NEW

Contents: with bus terminal and cable cover.

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